

Access DB# 91393

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Jeffrey Siew Examiner #: 74907 Date: 4/15/03
Art Unit: 1637 Phone Number: 305 3886 Serial Number: 09/835370
Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: polyamide
Inventors (please provide full names): Uhlmann

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

GGTATGGGATAT

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher: <u>[Signature]</u>	NA Sequence (#) <u>✓</u>	STN <u>✓</u>	
Searcher Phone #: <u>41498</u>	AA Sequence (#) _____	Dialog _____	
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____	
Date Searcher Picked Up: <u>4/13/03</u>	Bibliographic _____	Dr.Link _____	
Date Completed: <u>4/13/03</u>	Litigation _____	Lexis/Nexis _____	
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____	
clerical Prep Time: <u>10</u>	Patent Family _____	WWW/Internet _____	
Online Time: <u>20</u>	Other _____	Other (specify) _____	

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L Number	Hits	Search Text	DB	Time stamp
1	2	6316595[pn]	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/04/13 21:27
2	2	6046306[pn]	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/04/13 21:27
3	2	6316595[pn]	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/04/13 21:34
5	0	pharmaceutical near10 polyamide near10 nucleic near10 acid	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/04/13 21:34
4	21	pharmaceutical near10 PNA	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/04/13 21:34

BioTech-Chem Library

Search Results

Feedback Form (Optional)



Scientific & Technical Information Center

The search results generated for your recent request are attached. If you have any questions or comments (compliments or complaints) about the scope or the results of the search, please contact *the BioTech-Chem searcher* who conducted the search *or contact*:

Mary Hale, Supervisor, 308-4258
CM-1 Room 1E01

Voluntary Results Feedback Form

➤ *I am an examiner in Workgroup:* (Example: 1610)

➤ *Relevant prior art found, search results used as follows:*

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art not found:*

- ☐ Results verified the lack of relevant prior art (helped determine patentability)
- ☐ Search results were not useful in determining patentability or understanding the invention.

Other Comments:

Drop off completed forms at the Circulation Desk CM-1, or send to Mary Hale, CM1-1E01 or e-mail mary.hale@uspto.gov.

=> d his

(FILE 'HOME' ENTERED AT 10:53:48 ON 13 APR 2003)
SET COST OFF

FILE 'REGISTRY' ENTERED AT 10:54:01 ON 13 APR 2003
E GGTATGGGATAT/SQEN *Chief*

L1 3 S E3
L2 1787 S GGTATGGGATAT/SQSN *Open*
L3 1 S L2 AND PEPTIDE AND NUCLEIC ACID
L4 1 S L1,L2 AND THIEN?(L)IMIDAZ?
L5 1 S BIOTIN/CN

Jan Delaval
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jan.delaval@uspto.gov

FILE 'HCAPLUS' ENTERED AT 10:56:12 ON 13 APR 2003

L6 1 S L3,L4
L7 1 S L1
L8 242 S L2
L9 10214 S L5
L10 29682 S ?BIOTIN?
L11 1 S L6,L7
L12 1 S L8 AND L9,L10
L13 1 S L11,L12
L14 1 S L13 AND L6-L13
L15 15 S L8 AND (PNA OR PEPTIDE(L)NUCLEIC ACID)
L16 15 S L8 AND (PNA OR PEPTIDE NUCLEIC ACID)
L17 15 S L15,L16
L18 14 S L17 NOT L14
L19 12 S L18 AND (PD<=20000418 OR PRD<=20000418 OR AD<=20000418)
L20 1 S L8 AND (UHLMANN E? OR BREIPOHL G? OR WILL D?)/AU
L21 1 S L14,L20

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 10:59:58 ON 13 APR 2003
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FILE COVERS 1907 - 13 Apr 2003 VOL 138 ISS 16
FILE LAST UPDATED: 11 Apr 2003 (20030411/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all 121

L21 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS
AN 2001:780930 HCAPLUS
DN 135:331678
TI Methods for preparing phosphorylated peptide nucleic acids carrying one or more marker, crosslinking, intracellular uptake, or binding affinity groups

IN Uhlmann, Eugen; Breipohl, Gerhard; Will, David
William
PA Aventis Pharma Deutschland G.m.b.H., Germany
SO PCT Int. Appl., 96 pp.
CODEN: PIXXD2
DT Patent
LA German
IC ICM C07H021-00
CC 34-3 (Amino Acids, Peptides, and Proteins)
Section cross-reference(s): 33

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001079249	A2	20011025	WO 2001-EP4027	20010407
	WO 2001079249	A3	20020328		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	DE 10019136	A1	20011031	DE 2000-10019136	20000418
	BR 2001010111	A	20030211	BR 2001-10111	20010407
	EP 1282639	A2	20030212	EP 2001-919443	20010407
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2003022172	A1	20030130	US 2001-835370	20010417
	NO 2002004960	A	20021112	NO 2002-4960	20021015
PRAI	DE 2000-10019136	A	20000418		
	WO 2001-EP4027	W	20010407		
AB	The invention relates to PNA derivs. which carry a phosphoryl radical on the N terminus of the PNA backbone, for example a phosphate or a substituted phosphoryl radical, substituted phosphoryl derives optionally carrying one or more marker groups or groups for crosslinking or groups which favor intracellular take-up or groups which increase the binding affinity of the PNA deriv. to nucleic acids. The invention also relates to a method for producing the aforementioned PNA derivs. and to their use as medicaments and diagnostic agents. Thus, several PNA chains were prepd. using solid phase peptide synthesis techniques, in which the C-terminal was capped by NH(CH ₂) ₆ OH and the N-terminal H ₂ N- group was replaced by HO-, and functionalized to H ₂ O ₃ PO- or ROP(O)(OH)O- (R = biotin or fluorescein tag group or alkyl cap). Hybridization tests with complementary DNA or RNA showed increased binding, compared to a normal PNA chain N-capped with H ₃ CC(O)- and C-capped with NH(CH ₂) ₆ OH. In vitro cellular uptake studies were done with fluorescein-tagged PNA (no data). In vitro cell proliferation studies were done with a H ₃ C(CH ₂) ₁₅ OP(O)(OH)-capped PNA using human pre-B leukemia cells or A549-tumor cells (no data).				
ST	PNA deriv prepn antiviral antimicrobial antitumor diagnostic hybridization				
IT	Diagnosis				
	(agents; prepn. of PNA derivs. as therapeutic or diagnostic agents)				
IT	Solid phase synthesis				
	(peptide; prepn. of PNA derivs. as therapeutic or diagnostic agents)				
IT	Antimicrobial agents				
	Antitumor agents				
	Antiviral agents				
	Biosensors				
	Nucleic acid hybridization				
	(prepn. of PNA derivs. as therapeutic or diagnostic agents)				
IT	Peptide nucleic acids				

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of PNA derivs. as therapeutic or diagnostic agents)

IT 368944-36-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of PNA derivs. as therapeutic or diagnostic agents)

IT 368944-38-1P 368944-39-2P 368944-40-5P 368944-41-6P 368944-42-7P
368944-43-8P 368944-44-9P 368944-45-0P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(prepn. of PNA derivs. as therapeutic or diagnostic agents)

IT 368506-25-6P 368944-35-8P 368944-37-0P

RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of PNA derivs. as therapeutic or diagnostic agents)

IT 367255-38-7P 367255-39-8P 367985-52-2P 367985-53-3P 367985-54-4P
367985-55-5P 368506-26-7P 368506-27-8P **368506-28-9P**
368506-29-0P 368506-30-3P 368506-31-4P 368944-46-1P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of PNA derivs. as therapeutic or diagnostic agents)

IT 110616-00-7 116364-61-5 147178-75-4 159845-57-5 169025-57-4,
GenBank AR029142 181988-02-3 181988-09-0 185831-42-9 186070-79-1,
GenBank A42375 186071-78-3 186108-31-6, 3: PN: WO0004034 SEQID: 3
unclaimed DNA 186123-93-3, GenBank A44395 186162-52-7 186162-55-0,
GenBank A42368 189356-60-3 195184-07-7, GenBank A42342 195184-11-3,
GenBank A42347 195184-12-4 195184-14-6, GenBank A42351 195184-15-7,
GenBank A42352 195184-16-8, GenBank A44386 195184-17-9, GenBank A42354
195184-18-0, GenBank A42355 195184-19-1, GenBank A42356 195184-20-4,
GenBank A42357 195184-21-5, GenBank A42358 195184-22-6, GenBank A42359
195184-23-7, GenBank A42361 195184-24-8, GenBank A42362 195184-25-9,
GenBank A42363 195184-26-0, GenBank A47186 195184-27-1 195184-28-2,
GenBank A47179 197103-72-3 197831-18-8 246223-25-6 257601-47-1,
GenBank AX283184 325605-36-5, GenBank AX283169 325605-37-6, GenBank
AX283174 325605-38-7 325605-39-8 325605-40-1 325605-41-2
325605-42-3 325605-43-4 325605-44-5 325605-45-6 325605-46-7
325605-47-8 325605-48-9 325605-49-0 325605-50-3 325605-51-4
325605-52-5 368952-79-8 368952-80-1 368952-81-2 368952-82-3
368952-83-4 **368952-84-5** 368952-85-6

RL: PRP (Properties)

(unclaimed nucleotide sequence; methods for prepg. phosphorylated peptide nucleic acids carrying one or more marker, crosslinking, intracellular uptake, or binding affinity groups)

IT 81742-60-1 143189-17-7

RL: PRP (Properties)

(unclaimed sequence; methods for prepg. phosphorylated peptide nucleic acids carrying one or more marker, crosslinking, intracellular uptake, or binding affinity groups)

=> sel hit rn 121

E1 THROUGH E2 ASSIGNED

=> fil reg

FILE 'REGISTRY' ENTERED AT 11:00:39 ON 13 APR 2003

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STRUCTURE FILE UPDATES: 11 APR 2003 HIGHEST RN 502793-56-8
DICTIONARY FILE UPDATES: 11 APR 2003 HIGHEST RN 502793-56-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s e1-e2

1 368506-28-9/BI
(368506-28-9/RN)

1 368952-84-5/BI
(368952-84-5/RN)

L22 2 (368506-28-9/BI OR 368952-84-5/BI)

=> s l22 and 11-15

L23 2 L22 AND (L1 OR L2 OR L3 OR L4 OR L5)

=> d sqide can tot l23

L23 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS

RN **368952-84-5** REGISTRY

CN DNA, d(G-G-T-A-T-G-G-G-A-T-A-T) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 32: PN: WO0179249 SEQID: 58 unclaimed DNA

FS NUCLEIC ACID SEQUENCE

SQL 12

NA 3 a 5 g 4 t

PATENT ANNOTATIONS (PNTE):

Sequence |Patent

Source |Reference

=====+=====

Not Given|WO2001079249

|unclaimed

|SEQID 58

SEQ 1 ggtatgggat at

===== ==

HITS AT: 1-12

RELATED SEQUENCES AVAILABLE WITH SEQLINK

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:331678

L23 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS

RN 368506-28-9 REGISTRY

CN Peptide nucleic acid, ([5'-deamino-5'-[[[[6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]hexyl]oxy]hydroxyphosphinyl]oxy]]G-G-T-A-T-G-G-G-A-T-A-T)-(6-hydroxyhexyl)NH (9CI) (CA INDEX NAME)

FS NUCLEIC ACID SEQUENCE

SQL 12

NA 3 a 5 g 4 t

NTE modified

type	location	description
modified base	g-1	5'-ester
modified base	g-1	modified guanosine
modified base	t-12	3'-deoxy
modified base	t-12	3'-substituted

SEQ 1 ggtatgggat at

HITS AT: 1-12

RELATED SEQUENCES AVAILABLE WITH SEQLINK

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:331678

=> s l1 not 123

L24 1 L1 NOT L23

=> d sqide can

L24 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 391360-50-2 REGISTRY

CN GenBank AX283294 (9CI) (CA INDEX NAME)

FS NUCLEIC ACID SEQUENCE

SQL 12

NA 3 a 5 g 4 t

SEQ 1 ggtatgggat at

HITS AT: 1-12

RELATED SEQUENCES AVAILABLE WITH SEQLINK

MF Unspecified

CI MAN

SR GenBank

LC STN Files: GENBANK

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 11:02:21 ON 13 APR 2003

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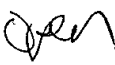
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FILE COVERS 1907 - 13 Apr 2003 VOL 138 ISS 16
FILE LAST UPDATED: 11 Apr 2003 (20030411/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l19 not l21
L25 12 L19 NOT L21

 => d all tot

L25 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2003 ACS
AN 2002:582203 HCAPLUS
Correction of: 2002:10728
DN 137:104768
Correction of: 136:65179
TI Diagnosis and therapy of diseases associated with signal transduction by detection of single nucleotide polymorphism and cytosine methylation in chemically modified genomic DNA
IN Olek, Alexander; Piepenbrock, Christian; Berlin, Kurt
PA Epigenomics Ag, Germany
SO PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C12Q001-68
ICS G01N033-50; B01J019-00; C12N015-11; A61K031-70
CC 3-1 (Biochemical Genetics)
Section cross-reference(s): 9, 13, 14
FAN.CNT 68

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002000926	A2	20020103	WO 2001-EP7472	20010629
	WO 2002000926	C1	20020613		
	WO 2002000926	A3	20021121		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	DE 10032529	A1	20020207	DE 2000-10032529	20000630
	EP 1274865	A2	20030115	EP 2001-953936	20010406 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			

EP 1297185 A2 20030402 EP 2001-969326 20010629
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRAI DE 2000-10032529 A 20000630
 DE 2000-10043826 A 20000901
 DE 2000-10019058 A 20000406 <--
 DE 2000-10019173 A 20000407 <--
 WO 2001-EP3969 W 20010406
 WO 2001-EP7472 W 20010629

AB The invention relates to chem. modified genomic sequences of genes assocd. with signal transduction, an oligonucleotide directed against said sequence and/or **PNA** oligomers for the detection of the methylation state of cytosine of genes assocd. with signal transduction. The present invention is based on the discovery that cytosine methylations patterns in genomic DNA are particularly suitable for diagnosis and/or therapy of diseases assocd. with signal transduction. Thus, the chem. Modified genomic sequences of genes assocd. with signal transduction, and oligonucleotides and/or **peptide nucleic acid** oligomers for detecting the cytosine methylation state of signal transduction genes are provided. Specific reaction of bisulfite and subsequent alk. hydrolysis converts cytosine to uracil, which corresponds to thymidine in its base pairing behavior. However, 5-methylcytosine remains unmodified under these conditions. Consequently, the original DNA is converted in such a manner that methylcytosine, which originally could not be distinguished from cytosine by its hybridization behavior, can now be detected as the only remaining cytosine using "normal" mol. biol. techniques. The oligomer probes according to the present invention, contg. at least one CpG dinucleotide, constitute important and effective tools which make it possible to ascertain the genetic and epigenetic parameters of genes assocd. with signal transduction. The invention is exemplified by gene AR in which a specific CG-position is analyzed for methylation. The Sequence Listing was provided as an electronic file, but was not made available in the release of this patent.

ST diagnosis genetic disease signal transduction SNP polymorphism cytosine methylation; bisulfite DNA signal transduction disease diagnosis hybridization probe

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (AATK; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ADRBK1; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (AKT1; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ARH1; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (ATK2; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(B56; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(BMPR2; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CHN1; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CHN2; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CLK3; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CNK; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CSK; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CSNK1D; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CTNNB1; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CTNND2; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)

- IT Genetic element
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CpG island, methylation; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(DGKG; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(DRG2; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(DVL3; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(DYRK3; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(DYRK4; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(EFNA1; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(EPHA4; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(EPHA5; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(EPHB3; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(ERBB4; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GRB2; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HCK; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MADH3; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAP3K12; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAP3K3; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAPK10; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAPK13; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAPK1; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAPK6; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAPK9; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAPKAPK2; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(NEK3; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PCTK3; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PDE4B; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PDPK1; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PIK3CA; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKACG; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKAG1; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKAR1A; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKAR1B; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(PRKCA; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKCG; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKCZ; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKG1; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKM3; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKMK2; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PTK2; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PTK2B; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RGS7; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RHOK; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ROR1; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ROR2; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RYK; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SFN; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SH3D1B; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(STAT12; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(STAT1; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(STK3; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(TIAM1; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(TTKTYRO3; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(UBE1L; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (YES1; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
 RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ZAP70; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Animal cell line
 Blood analysis
 Brain
 Cerebrospinal fluid
 DNA microarray technology
 Eye
 Feces
 Fluorescent indicators
 Heart
 Human
 Intestine
 Isotope indicators
 Kidney
 Liver
 Lung
 Mammary gland
 Mass spectrometry
 Nucleic acid hybridization
 PCR (polymerase chain reaction)
 Prostate gland
 Signal transduction, biological
 Sputum
 Therapy
 Urine analysis
 (diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT DNA
 RL: ANT (Analyte); ANST (Analytical study)
 (diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT **Peptide nucleic acids**
 Primers (nucleic acid)
 Probes (nucleic acid)
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Glass, biological studies
 RL: BUU (Biological use, unclassified); DEV (Device component use); BIOL (Biological study); USES (Uses)
 (diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Test kits
 (diagnosis; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Genetics
 (epigenetics; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)

- IT Diagnosis
 (genetic; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT DNA
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (methylation; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Animal tissue
 (paraffin embedded; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Immobilization, molecular
 (pf oligonucleotides to solid phase; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Laser ionization mass spectrometry
 (photodesorption, matrix-assisted; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Laser desorption mass spectrometry
 (photoionization, matrix-assisted; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT DNA sequences
 (primer oligonucleotides; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Disease, animal
 (signal transduction-assocd.; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Gene, animal
 RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses) (signal transduction-assocd.; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT Genetic polymorphism
 (single nucleotide; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT 15181-46-1, Bisulfite 23134-05-6, Disulfite
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT 7429-90-5, Aluminum, biological studies 7439-89-6, Iron, biological studies 7440-02-0, Nickel, biological studies 7440-21-3, Silicon, biological studies 7440-22-4, Silver, biological studies 7440-50-8, Copper, biological studies 7440-57-5, Gold, biological studies 9003-53-6, Polystyrene 12597-69-2, Steel, biological studies
 RL: BUU (Biological use, unclassified); DEV (Device component use); BIOL (Biological study); USES (Uses) (diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation)
- IT 9012-90-2, DNA polymerase
 RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses) (heat-resistant; diagnosis and therapy of diseases assocd. with signal

transduction by using oligonucleotides and/or PNA-oligomers
for detecting cytosine methylation)

IT 71-30-7, Cytosine

RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)

(methylation; diagnosis and therapy of diseases assocd. with signal
transduction by using oligonucleotides and/or PNA-oligomers
for detecting cytosine methylation)

IT	443174-89-8D, bisulfite modified	443174-90-1D, bisulfite modified
	443174-91-2D, bisulfite modified	443174-92-3D, bisulfite modified
	443174-93-4D, bisulfite modified	443174-94-5D, bisulfite modified
	443174-95-6D, bisulfite modified	443174-96-7D, bisulfite modified
	443174-97-8D, bisulfite modified	443174-98-9D, bisulfite modified
	443174-99-0D, bisulfite modified	443175-00-6D, bisulfite modified
	443175-01-7D, bisulfite modified	443175-02-8D, bisulfite modified
	443175-03-9D, bisulfite modified	443175-04-0D, bisulfite modified
	443175-05-1D, bisulfite modified	443175-06-2D, bisulfite modified
	443175-07-3D, bisulfite modified	443175-08-4D, bisulfite modified
	443175-09-5D, bisulfite modified	443175-10-8D, bisulfite modified
	443175-11-9D, bisulfite modified	443175-12-0D, bisulfite modified
	443175-13-1D, bisulfite modified	443175-14-2D, bisulfite modified
	443175-15-3D, bisulfite modified	443175-16-4D, bisulfite modified
	443175-17-5D, bisulfite modified	443175-18-6D, bisulfite modified
	443175-19-7D, bisulfite modified	443175-20-0D, bisulfite modified
	443175-21-1D, bisulfite modified	443175-22-2D, bisulfite modified
	443175-23-3D, bisulfite modified	443175-24-4D, bisulfite modified
	443175-25-5D, bisulfite modified	443175-26-6D, bisulfite modified
	443175-27-7D, bisulfite modified	443175-28-8D, bisulfite modified
	443175-29-9D, bisulfite modified	443175-30-2D, bisulfite modified
	443175-31-3D, bisulfite modified	443175-32-4D, bisulfite modified
	443175-33-5D, bisulfite modified	443175-34-6D, bisulfite modified
	443175-35-7D, bisulfite modified	443175-36-8D, bisulfite modified
	443175-37-9D, bisulfite modified	443175-38-0D, bisulfite modified
	443175-39-1D, bisulfite modified	443175-40-4D, bisulfite modified
	443175-41-5D, bisulfite modified	443175-42-6D, bisulfite modified
	443175-43-7D, bisulfite modified	443175-44-8D, bisulfite modified
	443175-45-9D, bisulfite modified	443175-46-0D, bisulfite modified
	443175-47-1D, bisulfite modified	443175-48-2D, bisulfite modified
	443175-49-3D, bisulfite modified	443175-50-6D, bisulfite modified
	443175-51-7D, bisulfite modified	443175-52-8D, bisulfite modified
	443175-53-9D, bisulfite modified	443175-54-0D, bisulfite modified
	443175-55-1D, bisulfite modified	443175-56-2D, bisulfite modified
	443175-57-3D, bisulfite modified	443175-58-4D, bisulfite modified
	443175-59-5D, bisulfite modified	443175-60-8D, bisulfite modified
	443175-61-9D, bisulfite modified	443175-62-0D, bisulfite modified
	443175-63-1D, bisulfite modified	443175-64-2D, bisulfite modified
	443175-65-3D, bisulfite modified	443175-66-4D, bisulfite modified
	443175-67-5D, bisulfite modified	443175-68-6D, bisulfite modified
	443175-69-7D, bisulfite modified	443175-70-0D, bisulfite modified
	443175-71-1D, bisulfite modified	443175-72-2D, bisulfite modified
	443175-73-3D, bisulfite modified	443175-74-4D, bisulfite modified
	443175-75-5D, bisulfite modified	443175-76-6D, bisulfite modified
	443175-77-7D, bisulfite modified	443175-78-8D, bisulfite modified
	443175-79-9D, bisulfite modified	443175-80-2D, bisulfite modified
	443175-81-3D, bisulfite modified	443175-82-4D, bisulfite modified
	443175-83-5D, bisulfite modified	443175-84-6D, bisulfite modified
	443175-85-7D, bisulfite modified	443175-86-8D, bisulfite modified
	443175-87-9D, bisulfite modified	443175-88-0D, bisulfite modified
	443175-89-1D, bisulfite modified	443175-90-4D, bisulfite modified
	443175-91-5D, bisulfite modified	443175-92-6D, bisulfite modified
	443175-93-7D, bisulfite modified	443175-94-8D, bisulfite modified
	443175-95-9D, bisulfite modified	443175-96-0D, bisulfite modified
	443175-97-1D, bisulfite modified	443175-98-2D, bisulfite modified

[illegible]

RL: ANT (Analyte); ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; diagnosis and therapy of diseases assocd. with signal transduction by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation)

IT	443177-23-9D, bisulfite modified	443177-24-0D, bisulfite modified
	443177-25-1D, bisulfite modified	443177-26-2D, bisulfite modified
	443177-27-3D, bisulfite modified	443177-28-4D, bisulfite modified
	443177-29-5D, bisulfite modified	443177-30-8D, bisulfite modified
	443177-31-9D, bisulfite modified	443177-32-0D, bisulfite modified
	443177-33-1D, bisulfite modified	443177-34-2D, bisulfite modified
	443177-35-3D, bisulfite modified	443177-36-4D, bisulfite modified
	443177-37-5D, bisulfite modified	443177-38-6D, bisulfite modified
	443177-39-7D, bisulfite modified	443177-40-0D, bisulfite modified
	443177-41-1D, bisulfite modified	443177-42-2D, bisulfite modified
	443177-43-3D, bisulfite modified	443177-44-4D, bisulfite modified
	443177-45-5D, bisulfite modified	443177-46-6D, bisulfite modified
	443177-47-7D, bisulfite modified	443177-48-8D, bisulfite modified
	443177-49-9D, bisulfite modified	443177-50-2D, bisulfite modified
	443177-51-3D, bisulfite modified	443177-52-4D, bisulfite modified
	443177-53-5D, bisulfite modified	443177-54-6D, bisulfite modified
	443177-55-7D, bisulfite modified	443177-56-8D, bisulfite modified
	443177-57-9D, bisulfite modified	443177-58-0D, bisulfite modified
	443177-59-1D, bisulfite modified	443177-60-4D, bisulfite modified
	443177-61-5D, bisulfite modified	443177-62-6D, bisulfite modified
	443177-63-7D, bisulfite modified	443177-64-8D, bisulfite modified
	443177-65-9D, bisulfite modified	443177-66-0D, bisulfite modified
	443177-67-1D, bisulfite modified	443177-68-2D, bisulfite modified
	443177-69-3D, bisulfite modified	443177-70-6D, bisulfite modified
	443177-71-7D, bisulfite modified	443177-72-8D, bisulfite modified
	443177-73-9D, bisulfite modified	443177-74-0D, bisulfite modified
	443177-75-1D, bisulfite modified	443177-76-2D, bisulfite modified
	443177-77-3D, bisulfite modified	443177-78-4D, bisulfite modified
	443177-79-5D, bisulfite modified	443177-80-8D, bisulfite modified
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	443178-03-8D, bisulfite modified	443178-04-9D, bisulfite modified
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	443178-17-4D, bisulfite modified	443178-18-5D, bisulfite modified
	443178-19-6D, bisulfite modified	443178-20-9D, bisulfite modified
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	443178-33-4D, bisulfite modified	443178-34-5D, bisulfite modified
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443178-37-8D, bisulfite modified 443178-38-9D, bisulfite modified
 443178-39-0D, bisulfite modified 443178-40-3D, bisulfite modified
 443178-41-4D, bisulfite modified 443178-42-5D, bisulfite modified
 443178-43-6D, bisulfite modified 443178-44-7D, bisulfite modified
 443178-45-8D, bisulfite modified 443178-46-9D, bisulfite modified
 443178-47-0D, bisulfite modified 443178-48-1D, bisulfite modified
 443178-49-2D, bisulfite modified 443178-50-5D, bisulfite modified
 443178-51-6D, bisulfite modified 443178-52-7D, bisulfite modified
 443178-53-8D, bisulfite modified 443178-54-9D, bisulfite modified
 443178-55-0D, bisulfite modified 443178-56-1D, bisulfite modified
 443178-57-2D, bisulfite modified 443178-58-3D, bisulfite modified
 443178-59-4D, bisulfite modified 443178-60-7D, bisulfite modified
 443178-61-8D, bisulfite modified 443178-62-9D, bisulfite modified
 443178-63-0D, bisulfite modified 443178-64-1D, bisulfite modified
 443178-65-2D, bisulfite modified 443178-66-3D, bisulfite modified
 443178-67-4D, bisulfite modified 443178-68-5D, bisulfite modified
 443178-69-6D, bisulfite modified 443178-70-9D, bisulfite modified
 443178-71-0D, bisulfite modified 443178-72-1D, bisulfite modified
 443178-73-2D, bisulfite modified 443178-74-3D, bisulfite modified
 443178-75-4D, bisulfite modified 443178-76-5D, bisulfite modified
 RL: ANT (Analyte); ARG (Analytical reagent use); DGN (Diagnostic use); PRP
 (Properties); ANST (Analytical study); BIOL (Biological study); USES
 (Uses)

(nucleotide sequence; diagnosis and therapy of diseases assocd. with
 signal transduction by using oligonucleotides and/or **PNA**
 -oligomers for detecting cytosine methylation)

IT 443174-85-4 443174-86-5
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties);
 ANST (Analytical study); BIOL (Biological study); USES (Uses)

(primer for gene AR assay; diagnosis and therapy of diseases assocd.
 with signal transduction by using oligonucleotides and/or **PNA**
 -oligomers for detecting cytosine methylation)

IT 443174-87-6 443174-88-7
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties);
 ANST (Analytical study); BIOL (Biological study); USES (Uses)

(probe for gene AR assay; diagnosis and therapy of diseases assocd.
 with signal transduction by using oligonucleotides and/or **PNA**
 -oligomers for detecting cytosine methylation)

IT 139839-14-8D, GenBank M65066, chem. modified 140098-11-9D, GenBank
 M84490, chem. modified 144806-46-2D, GenBank Z11696, chem. modified
 145677-18-5D, GenBank L05148, chem. modified 148636-92-4D, GenBank
 L11285, chem. modified 150247-50-0D, GenBank X66362, chem. modified
 155119-15-6D, GenBank Z29067, chem. modified 158411-29-1D, GenBank
 L36644, chem. modified 179501-26-9D, GenBank U61167, chem. modified
 183265-56-7D, GenBank Y09305, chem. modified
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties);
 ANST (Analytical study); BIOL (Biological study); USES (Uses)

(probe; diagnosis and therapy of diseases assocd. with signal
 transduction by using oligonucleotides and/or **PNA**-oligomers
 for detecting cytosine methylation)

L25 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:406204 HCAPLUS

Correction of: 2001:903883

DN 136:364885

Correction of: 136:31680

TI Diagnosis of diseases associated with cell signaling by detection of
 cytosine methylation in chemically modified genomic DNA

IN Olek, Alexander; Piepenbrock, Christian; Berlin, Kurt

PA Epigenomics A.-G., Germany

SO PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DT Patent

LA English
 IC ICM C12Q001-68
 CC 3-1 (Biochemical Genetics)
 Section cross-reference(s): 13, 14

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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002002807	A2	20020110	WO 2001-EP7471	20010629
	WO 2002002807	A3	20020808		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	DE 10032529	A1	20020207	DE 2000-10032529	20000630
	EP 1274865	A2	20030115	EP 2001-953936	20010406 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	EP 1297182	A2	20030402	EP 2001-955325	20010629
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
PRAI	DE 2000-10032529	A	20000630		
	DE 2000-10043826	A	20000901		
	DE 2000-10019058	A	20000406	<--	
	DE 2000-10019173	A	20000407	<--	
	WO 2001-EP3969	W	20010406		
	WO 2001-EP7471	W	20010629		

AB The present invention relates to the chem. modified genomic sequences of genes assocd. with cell signaling, to oligonucleotides and/or **PNA** -oligomers for detecting the cytosine methylation state of genes assocd. with cell signaling which are directed against the sequence, as well as to a method for ascertaining genetic and/or epigenetic parameters of genes assocd. with cell signaling. The present invention is based on the discovery that cytosine methylation patterns in genomic DNA are particularly suitable for diagnosis and/or therapy of diseases assocd. with signal transduction. Thus, the chem. modified genomic sequences of genes assocd. with signal transduction, and oligonucleotides and/or **peptide nucleic acid** oligomers for detecting the cytosine methylation state of signal transduction genes are provided. Specific reaction of bisulfite and subsequent alk. hydrolysis converts cytosine to uracil, which corresponds to thymidine in its base pairing behavior. However, 5-methylcytosine remains unmodified under these conditions. Consequently, the original DNA is converted in such a manner that methylcytosine, which originally could not be distinguished from cytosine by its hybridization behavior, can now be detected as the only remaining cytosine using "normal" mol. biol. techniques. The oligomer probes according to the present invention, contg. at least one CpG dinucleotide, constitute important and effective tools which make it possible to ascertain the genetic and epigenetic parameters of genes assocd. with signal transduction. The invention is exemplified by gene AR in which a specific CG-position is analyzed for methylation.

ST diagnosis genetic disease signal transduction SNP polymorphism cytosine methylation; bisulfite DNA signal transduction disease diagnosis hybridization probe

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(ABR; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(ACPF1; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(ACTG1; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(ADRBK1; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(AKT1; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(AKT2; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(ARHA; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(BMPR2; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(BMX; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(CDC2L1; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(CDH2; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(CDH4; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(CLK3; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)

(CNK; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(COT; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CSNK1D; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CTNNB1; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CTNND2; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Genetic element
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CpG island, methylation; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(DGKG; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(DVL3; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(EFNA1; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(EGR3; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(EPHA5; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(EPHB3; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(FLT4; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(FN1; diagnosis of diseases assocd. with cell signaling by detection of
cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(GRB2; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(IFIT1; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(INPP5D; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(ISG20; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(ITGA6; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(ITGAE; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(ITGAX; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(ITGB1; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(ITGB3; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(ITGB5; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(ITGB7; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)

(L-myc; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LY6E; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MADH3; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAP3K12; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAP3K3; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAPK10; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAPK13; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAPK1; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAPK6; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(NEK3; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(OCLN; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PCDH1; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PCTK3; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal

RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PDPK1; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PIK3CA; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PPP1CC; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PPP1R3; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PPP2R1B; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PPP2R5D; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PPP3CA; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKACB; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKACG; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKAG1; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKAR1A; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKAR1B; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PRKCA; diagnosis of diseases assocd. with cell signaling by detection

of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(PRKCG; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(PRKCZ; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(PRKG1; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(PRKM3; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(PRKMK2; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(PTPN13; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(PTPN7; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(PTPN9; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(PTPRD; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(PTPRG; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(PTPRN2; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(RGS7; diagnosis of diseases assocd. with cell signaling by detection
of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
(RHOK; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RSN; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RYK; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SCYB10; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SFN; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SPTB3; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SRPK2; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(STK3; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(TGFB1; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(TIAM1; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(TTK; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(TYRO3; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(UBE1L; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(VASP; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)
- IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ZAP70; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)
- IT Animal cell line
Blood analysis
Brain
Cerebrospinal fluid
DNA microarray technology
Electrospray ionization mass spectrometry
Eye
Feces
Fluorescent indicators
Heart
Human
Intestine
Isotope indicators
Kidney
Liver
Lung
Mammary gland
Mass spectrometry
Nucleic acid amplification (method)
Nucleic acid hybridization
PCR (polymerase chain reaction)
Prostate gland
Signal transduction, biological
Sputum
Therapy
Urine analysis
cDNA sequences
(diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)
- IT DNA
RL: ANT (Analyte); ANST (Analytical study)
(diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)
- IT **Peptide nucleic acids**
Primers (nucleic acid)
Probes (nucleic acid)
RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)
- IT Glass, uses
RL: DEV (Device component use); USES (Uses)
(diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)
- IT Test kits
(diagnosis; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)
- IT Diagnosis
(genetic; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)
- IT DNA
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(methylation; diagnosis of diseases assocd. with cell signaling by

detection of cytosine methylation in chem. modified genomic DNA)

IT Immobilization, molecular
(of oligonucleotides to solid phase; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Animal tissue
(paraffin embedded; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Laser ionization mass spectrometry
(photodesorption, matrix-assisted; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Laser desorption mass spectrometry
(photoionization, matrix-assisted; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Disease, animal
(signal transduction-assocd.; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(signal transduction-assocd; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT Genetic polymorphism
(single nucleotide; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT 15181-46-1, Bisulfite 23134-05-6, Disulfite
RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT 7429-90-5, Aluminum, uses 7439-89-6, Iron, uses 7440-02-0, Nickel, uses 7440-21-3, Silicon, uses 7440-22-4, Silver, uses 7440-50-8, Copper, uses 7440-57-5, Gold, uses 9003-53-6, Polystyrene 12597-69-2, Steel, uses
RL: DEV (Device component use); USES (Uses)
(diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT 9012-90-2, DNA polymerase
RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(heat-resistant; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT 71-30-7, Cytosine
RL: ANT (Analyte); DGN (Diagnostic use); RCT (Reactant); ANST (Analytical study); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(methylation of; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT 424855-12-9D, bisulfite-modified 424855-13-0D, bisulfite-modified
424855-14-1D, bisulfite-modified 424855-15-2D, bisulfite-modified
424855-16-3D, bisulfite-modified 424855-17-4D, bisulfite-modified
424855-18-5D, bisulfite-modified 424855-19-6D, bisulfite-modified
424855-20-9D, bisulfite-modified 424855-21-0D, bisulfite-modified
424855-22-1D, bisulfite-modified 424855-23-2D, bisulfite-modified
424855-24-3D, bisulfite-modified 424855-25-4D, bisulfite-modified
424855-26-5D, bisulfite-modified 424855-27-6D, bisulfite-modified
424855-28-7D, bisulfite-modified 424855-29-8D, bisulfite-modified
424855-30-1D, bisulfite-modified 424855-31-2D, bisulfite-modified
424855-32-3D, bisulfite-modified 424855-33-4D, bisulfite-modified
424855-34-5D, bisulfite-modified 424855-35-6D, bisulfite-modified

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424856-62-2D, bisulfite-modified	424856-63-3D, bisulfite-modified
424856-64-4D, bisulfite-modified	424856-65-5D, bisulfite-modified
424856-66-6D, bisulfite-modified	424856-67-7D, bisulfite-modified
424856-68-8D, bisulfite-modified	424856-69-9D, bisulfite-modified
424856-70-2D, bisulfite-modified	424856-71-3D, bisulfite-modified
424856-72-4D, bisulfite-modified	424856-73-5D, bisulfite-modified
424856-74-6D, bisulfite-modified	424856-75-7D, bisulfite-modified
424856-76-8D, bisulfite-modified	424856-77-9D, bisulfite-modified
424856-78-0D, bisulfite-modified	424856-79-1D, bisulfite-modified
424856-80-4D, bisulfite-modified	424856-81-5D, bisulfite-modified
424856-82-6D, bisulfite-modified	424856-83-7D, bisulfite-modified
424856-84-8D, bisulfite-modified	424856-85-9D, bisulfite-modified
424856-86-0D, bisulfite-modified	424856-87-1D, bisulfite-modified
424856-88-2D, bisulfite-modified	424856-89-3D, bisulfite-modified
424856-90-6D, bisulfite-modified	424856-91-7D, bisulfite-modified
424856-92-8D, bisulfite-modified	424856-93-9D, bisulfite-modified
424856-94-0D, bisulfite-modified	424856-95-1D, bisulfite-modified
424856-96-2D, bisulfite-modified	424856-97-3D, bisulfite-modified
424856-98-4D, bisulfite-modified	424856-99-5D, bisulfite-modified
424857-00-1D, bisulfite-modified	424857-01-2D, bisulfite-modified
424857-02-3D, bisulfite-modified	424857-03-4D, bisulfite-modified
424857-04-5D, bisulfite-modified	424857-05-6D, bisulfite-modified
424857-06-7D, bisulfite-modified	424857-07-8D, bisulfite-modified
424857-08-9D, bisulfite-modified	424857-09-0D, bisulfite-modified
424857-10-3D, bisulfite-modified	424857-11-4D, bisulfite-modified
424857-12-5D, bisulfite-modified	424857-13-6D, bisulfite-modified
424857-14-7D, bisulfite-modified	424857-15-8D, bisulfite-modified
424857-16-9D, bisulfite-modified	424857-17-0D, bisulfite-modified
424857-18-1D, bisulfite-modified	424857-19-2D, bisulfite-modified
424857-20-5D, bisulfite-modified	424857-21-6D, bisulfite-modified
424857-22-7D, bisulfite-modified	424857-23-8D, bisulfite-modified
bisulfite-modified	424857-24-9D, bisulfite-modified
bisulfite-modified	424857-26-1D, bisulfite-modified
bisulfite-modified	424857-28-3D, bisulfite-modified
bisulfite-modified	424857-30-7D, bisulfite-modified
bisulfite-modified	424857-32-9D, bisulfite-modified
bisulfite-modified	424857-34-1D, bisulfite-modified
bisulfite-modified	424857-36-3D, bisulfite-modified
bisulfite-modified	424857-38-5D, bisulfite-modified
bisulfite-modified	424857-40-9D, bisulfite-modified
bisulfite-modified	424857-42-1D, bisulfite-modified
bisulfite-modified	424857-44-3D, bisulfite-modified
bisulfite-modified	424857-25-0D, bisulfite-modified
	424857-27-2D, bisulfite-modified
	424857-29-4D, bisulfite-modified
	424857-31-8D, bisulfite-modified
	424857-33-0D, bisulfite-modified
	424857-35-2D, bisulfite-modified
	424857-37-4D, bisulfite-modified
	424857-39-6D, bisulfite-modified
	424857-41-0D, bisulfite-modified
	424857-43-2D, bisulfite-modified
	424857-45-4D, bisulfite-modified

RL: ANT (Analyte); ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT 424857-46-5D, bisulfite-modified	424857-47-6D, bisulfite-modified
424857-48-7D, bisulfite-modified	424857-49-8D, bisulfite-modified
424857-50-1D, bisulfite-modified	424857-51-2D, bisulfite-modified
424857-52-3D, bisulfite-modified	424857-53-4D, bisulfite-modified
424857-54-5D, bisulfite-modified	424857-55-6D, bisulfite-modified
424857-56-7D, bisulfite-modified	424857-57-8D, bisulfite-modified
424857-58-9D, bisulfite-modified	424857-59-0D, bisulfite-modified
424857-60-3D, bisulfite-modified	424857-61-4D, bisulfite-modified
424857-62-5D, bisulfite-modified	424857-63-6D, bisulfite-modified
424857-64-7D, bisulfite-modified	424857-65-8D, bisulfite-modified
424857-66-9D, bisulfite-modified	424857-67-0D, bisulfite-modified
424857-68-1D, bisulfite-modified	424857-69-2D, bisulfite-modified
424857-70-5D, bisulfite-modified	424857-71-6D, bisulfite-modified
424857-72-7D, bisulfite-modified	424857-73-8D, bisulfite-modified
424857-74-9D, bisulfite-modified	424857-75-0D, bisulfite-modified

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424859-02-9D, bisulfite-modified	424859-03-0D, bisulfite-modified
424859-04-1D, bisulfite-modified	424859-05-2D, bisulfite-modified
424859-06-3D, bisulfite-modified	424859-07-4D, bisulfite-modified
424859-08-5D, bisulfite-modified	424859-09-6D, bisulfite-modified
424859-10-9D, bisulfite-modified	424859-11-0D, bisulfite-modified
424859-12-1D, bisulfite-modified	424859-13-2D, bisulfite-modified
424859-14-3D, bisulfite-modified	424859-15-4D, bisulfite-modified
424859-16-5D, bisulfite-modified	424859-17-6D, bisulfite-modified
424859-18-7D, bisulfite-modified	424859-19-8D, bisulfite-modified
424859-20-1D, bisulfite-modified	424859-21-2D, bisulfite-modified
424859-22-3D, bisulfite-modified	424859-23-4D, bisulfite-modified
424859-24-5D, bisulfite-modified	424859-25-6D, bisulfite-modified
424859-26-7D, bisulfite-modified	424859-27-8D, bisulfite-modified
424859-28-9D, bisulfite-modified	424859-29-0D, bisulfite-modified
424859-30-3D, bisulfite-modified	424859-31-4D, bisulfite-modified
424859-32-5D, bisulfite-modified	424859-33-6D, bisulfite-modified
424859-34-7D, bisulfite-modified	424859-35-8D, bisulfite-modified
424859-36-9D, bisulfite-modified	424859-37-0D, bisulfite-modified
424859-38-1D, bisulfite-modified	424859-39-2D, bisulfite-modified
424859-40-5D, bisulfite-modified	424859-41-6D, bisulfite-modified
424859-42-7D, bisulfite-modified	424859-43-8D, bisulfite-modified
424859-44-9D, bisulfite-modified	424859-45-0D, bisulfite-modified
424859-46-1D, bisulfite-modified	424859-47-2D, bisulfite-modified
424859-48-3D, bisulfite-modified	424859-49-4D, bisulfite-modified
424859-50-7D, bisulfite-modified	424859-51-8D, bisulfite-modified
424859-52-9D, bisulfite-modified	424859-53-0D, bisulfite-modified
424859-54-1D, bisulfite-modified	424859-55-2D, bisulfite-modified
424859-56-3D, bisulfite-modified	424859-57-4D, bisulfite-modified
424859-58-5D, bisulfite-modified	424859-59-6D, bisulfite-modified
424859-60-9D, bisulfite-modified	424859-61-0D, bisulfite-modified
424859-62-1D, bisulfite-modified	424859-63-2D, bisulfite-modified
424859-64-3D, bisulfite-modified	424859-65-4D, bisulfite-modified
424859-66-5D, bisulfite-modified	424859-67-6D, bisulfite-modified
424859-68-7D, bisulfite-modified	424859-69-8D, bisulfite-modified
424859-70-1D, bisulfite-modified	424859-71-2D, bisulfite-modified
424859-72-3D, bisulfite-modified	424859-73-4D, bisulfite-modified
424859-74-5D, bisulfite-modified	424859-75-6D, bisulfite-modified
424859-76-7D, bisulfite-modified	424859-77-8D, bisulfite-modified
424859-78-9D, bisulfite-modified	424859-79-0D, bisulfite-modified

RL: ANT (Analyte); ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT 424859-80-3D, bisulfite-modified	424859-81-4D, bisulfite-modified
424859-82-5D, bisulfite-modified	424859-83-6D, bisulfite-modified
424859-84-7D, bisulfite-modified	424859-85-8D, bisulfite-modified
424859-86-9D, bisulfite-modified	424859-87-0D, bisulfite-modified
424859-88-1D, bisulfite-modified	424859-89-2D, bisulfite-modified
424859-90-5D, bisulfite-modified	424859-91-6D, bisulfite-modified
424859-92-7D, bisulfite-modified	424859-93-8D, bisulfite-modified
424859-94-9D, bisulfite-modified	424859-95-0D, bisulfite-modified
424859-96-1D, bisulfite-modified	424859-97-2D, bisulfite-modified
424859-98-3D, bisulfite-modified	424859-99-4D, bisulfite-modified
424860-00-4D, bisulfite-modified	424860-01-5D, bisulfite-modified
424860-02-6D, bisulfite-modified	424860-03-7D, bisulfite-modified
424860-04-8D, bisulfite-modified	424860-05-9D, bisulfite-modified
424860-06-0D, bisulfite-modified	424860-07-1D, bisulfite-modified
424860-08-2D, bisulfite-modified	424860-09-3D, bisulfite-modified
424860-10-6D, bisulfite-modified	424860-11-7D, bisulfite-modified
424860-12-8D, bisulfite-modified	424860-13-9D, bisulfite-modified
424860-14-0D, bisulfite-modified	424860-15-1D, bisulfite-modified
424860-16-2D, bisulfite-modified	424860-17-3D, bisulfite-modified

424860-18-4D, bisulfite-modified 424860-19-5D, bisulfite-modified
 424860-20-8D, bisulfite-modified 424860-21-9D, bisulfite-modified
 424860-22-0D, bisulfite-modified 424860-23-1D, bisulfite-modified
 424860-24-2D, bisulfite-modified 424860-25-3D, bisulfite-modified
 424860-26-4D, bisulfite-modified 424860-27-5D, bisulfite-modified
 RL: ANT (Analyte); ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT 151973-86-3D, GenBank D14497, bisulfite-modified 384494-87-5D, GenBank Z11696, bisulfite-modified 384522-17-2D, GenBank L11285, bisulfite-modified 384976-21-0D, GenBank M65066, bisulfite-modified 389184-32-1D, GenBank M84490, bisulfite-modified 389202-19-1D, GenBank X66362, bisulfite-modified 391524-93-9D, GenBank M10905, bisulfite-modified 391529-88-7D, GenBank M13977, bisulfite-modified 391536-99-5D, GenBank L05148, bisulfite-modified 391540-61-7D, GenBank Z15114, bisulfite-modified 391549-33-0D, GenBank Z29067, bisulfite-modified 391553-66-5D, GenBank L36644, bisulfite-modified
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT 424860-28-6 424860-29-7
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(primer for gene L-myc; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

IT 424860-30-0 424860-31-1
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(probe for gene L-myc; diagnosis of diseases assocd. with cell signaling by detection of cytosine methylation in chem. modified genomic DNA)

L25 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:348598 HCAPLUS

DN 137:28981

TI Human genome derived single exon nucleic acid probes useful for gene expression analysis

IN Penn, Sharron Gaynor; Rank, David Russell; Chen, Wensheng; Hanzel, David Kagen

PA USA

SO U.S. Pat. Appl. Publ., 97 pp., Cont.-in-part of U.S. Ser. No. 774,203.

CODEN: USXXCO

DT Patent

LA English

IC C12Q001-68; C07H021-04

NCL 435006000

CC 3-1 (Biochemical Genetics)

Section cross-reference(s): 13

FAN.CNT 87

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002048763	A1	20020425	US 2001-864761	20010523
	GB 2360284	A1	20010919	GB 2000-24263	20001004
	GB 2360284	B2	20020227		
	GB 2361238	A1	20011017	GB 2001-15281	20001004
	GB 2361238	B2	20020306		
	US 2002081590	A1	20020627	US 2001-774203	20010129
	WO 2001057270	A2	20010809	WO 2001-US661	20010130
	WO 2001057270	A3	20030213		

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WO 2001057271 A3 20030220
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WO 2001057273 A2 20010809 WO 2001-US664 20010130
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WO 2001057275 C2 20021017
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WO 2001057276 A2 20010809 WO 2001-US668 20010130

WO 2001057276 A3 20030109
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WO 2001057277 A2 20010809 WO 2001-US669 20010130
WO 2001057277 A3 20030213
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WO 2001057278 A2 20010809 WO 2001-US670 20010130
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WO 2001086003 A2 20011115 WO 2001-US665 20010130
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US 2002102252 A1 20020801 US 2001-827998 20010406
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WO 2001-US669 A2 20010130
WO 2001-US670 A2 20010130
US 2001-266860P P 20010205

AB Methods and app. for predicting, confirming and displaying functional regions from genomic sequence data are used to identify 16,834 unique

human genome-derived single exon probes useful for gene expression anal., particularly gene expression anal. by microarray. Also presented are genome-derived single exon microarrays that include such probes, peptides encoded by the exons, and antibodies thereto. The human genome-derived single-exon probes are known to be expressed in one or more human tissues or cell types, particularly human brain, heart, liver, fetal liver, placenta, lung, bone marrow, BT474 and other human mammary epithelial cells, HeLa and other human cervical epithelial cells, and HBL 100 and other human mammary epithelial cells. The invention provides a method of financing, selling and/or licensing genome-derived single-exon microarrays to customer desiring to measure gene expression, comprising: making available for computerized query or subscription service a database having a record corresponding to each genome-derived single exon microarray available for sale and/or license. [This abstr. record is one of ten records for this document necessitated by the large no. of index entries required to fully index the document and publication system constraints.].

ST genome exon probe gene expression analysis; microarray exon probe gene expression analysis human; sequence gene exon probe human; business genome exon probe gene expression analysis

IT Animal cell line
(BT 474; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Animal cell line
(HBL 100; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Graph theory
(Mondrian representation of sequence and expression data; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Liver
(adult and fetal; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Industry
(bioinformatic; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Uterus
(cervix, epithelium; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Mammary gland
(epithelium; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Genetic element
RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(exon; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Computer application
(for storage of sequence and gene expression data; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Bioinformatics
Bone marrow
Brain
DNA microarray technology
DNA sequences
Databases
HeLa cell
Heart
Human
Lung
Molecular cloning
Placenta

Protein sequences

(human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study)

(human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Antibodies

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Probes (nucleic acid)

RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Nucleic acids

RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(labeled; human genome derived single exon nucleic acid probes useful for gene expression anal.)

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400618-80-6	400618-81-7	400618-82-8		

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)

(amino acid sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

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	400619-66-1	400619-67-2	400619-68-3	400619-69-4	400619-70-7
	400619-72-9	400619-73-0	400619-74-1	400619-75-2	400619-77-4
	400619-78-5	400619-79-6	400619-80-9	400619-81-0	400619-82-1
	400619-83-2	400619-84-3	400619-85-4	400619-86-5	400619-87-6
	400619-89-8	400619-90-1	400619-91-2	400619-92-3	400619-93-4
	400619-94-5	400619-95-6	400619-97-8	400619-98-9	400619-99-0
	400620-00-0	400620-01-1	400620-02-2	400620-03-3	400620-04-4
	400620-06-6	400620-07-7	400620-08-8	400620-09-9	400620-10-2
	400620-11-3	400620-12-4	400620-13-5	400620-14-6	400620-15-7
	400632-33-9	400632-37-3	400632-38-4	400632-40-8	400632-42-0
	400632-43-1	400772-71-6	400775-16-8	437000-90-3	437000-91-4
	437000-92-5	437000-93-6	437000-94-7	437000-95-8	437000-96-9
	437000-97-0	437000-98-1	437000-99-2	437001-00-8	437001-01-9
	437001-02-0	437001-03-1	437001-04-2	437001-05-3	437001-06-4
	437001-07-5	437001-08-6	437001-09-7	437001-10-0	437001-11-1
	437001-12-2	437001-13-3	437001-14-4	437001-15-5	437001-16-6
	437001-17-7	437001-18-8	437001-19-9	437001-20-2	437001-21-3
	437001-22-4	437001-23-5	437001-24-6	437001-25-7	437001-26-8
	437001-27-9	437001-28-0	437001-29-1	437001-30-4	437001-31-5
	437001-32-6	437001-33-7	437001-34-8	437001-35-9	437001-36-0
	437001-37-1	437001-38-2	437001-39-3	437001-40-6	437001-41-7
	437001-42-8	437001-43-9	437001-44-0	437001-45-1	437001-46-2
	437001-47-3	437001-48-4	437001-49-5	437001-50-8	437001-51-9
	437001-52-0	437001-53-1	437001-54-2	437001-55-3	437001-56-4
	437001-57-5	437001-58-6	437001-59-7	437001-60-0	437001-61-1
	437001-62-2	437001-63-3	437001-64-4	437001-65-5	437001-66-6
	437001-67-7	437001-68-8	437001-69-9	437001-70-2	437001-71-3
	437001-72-4	437001-73-5	437001-74-6	437001-75-7	437001-76-8
	437001-77-9	437001-78-0	437001-79-1	437001-80-4	437001-81-5
	437001-82-6	437001-83-7	437001-84-8	437001-85-9	437001-86-0
	437001-87-1	437001-88-2	437001-89-3	437001-90-6	437001-91-7
	437001-92-8	437001-93-9	437001-94-0	437001-95-1	437001-96-2
	437001-97-3	437001-98-4	437001-99-5	437002-00-1	437002-01-2
	437002-02-3	437002-03-4	437002-04-5		

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL

(Biological study)

(amino acid sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT	437002-05-6	437002-06-7	437002-07-8	437002-08-9	437002-09-0
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	437002-15-8	437002-16-9	437002-17-0	437002-18-1	437002-19-2
	437002-20-5	437002-21-6	437002-22-7	437002-23-8	437002-24-9
	437002-25-0	437002-26-1	437002-27-2	437002-28-3	437002-29-4
	437002-30-7	437002-31-8	437002-32-9	437002-33-0	437002-34-1
	437002-35-2	437002-36-3	437002-37-4	437002-38-5	437002-39-6
	437002-40-9	437002-41-0	437002-42-1	437002-43-2	437002-44-3
	437002-45-4	437002-46-5	437002-47-6	437002-48-7	437002-49-8
	437002-50-1	437002-51-2	437002-52-3	437002-53-4	437002-54-5
	437002-55-6	437002-56-7	437002-57-8	437002-58-9	437002-59-0
	437002-60-3	437002-61-4	437002-62-5	437002-63-6	437002-64-7
	437002-65-8	437002-66-9	437002-67-0	437002-68-1	437002-69-2
	437002-70-5	437002-71-6	437002-72-7	437002-73-8	437002-74-9
	437002-75-0	437002-76-1	437002-77-2	437002-78-3	437002-79-4
	437002-80-7	437002-81-8	437002-82-9	437002-83-0	437002-84-1
	437002-85-2	437002-86-3	437002-87-4	437002-88-5	437002-89-6
	437002-90-9	437002-91-0	437002-92-1	437002-93-2	437002-94-3
	437002-95-4	437002-96-5	437002-97-6	437002-98-7	437002-99-8
	437003-00-4	437003-01-5	437003-02-6	437003-03-7	437003-04-8
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	437003-10-6	437003-11-7	437003-12-8	437003-13-9	437003-14-0
	437003-15-1	437003-16-2	437003-17-3	437003-18-4	437003-19-5
	437003-20-8	437003-21-9	437003-22-0	437003-23-1	437003-24-2
	437003-25-3	437003-26-4	437003-27-5	437003-28-6	437003-29-7
	437003-30-0	437003-31-1	437003-32-2	437003-33-3	437003-34-4
	437003-35-5	437003-36-6	437003-37-7	437003-38-8	437003-39-9
	437003-40-2	437003-41-3	437003-42-4	437003-43-5	437003-44-6
	437003-45-7	437003-46-8	437003-47-9	437003-48-0	437003-49-1
	437003-50-4	437003-51-5	437003-52-6	437003-53-7	437003-54-8
	437003-55-9	437003-56-0	437003-57-1	437003-58-2	437003-59-3
	437003-60-6	437003-61-7	437003-62-8	437003-63-9	437003-64-0
	437003-65-1	437003-66-2	437003-67-3	437003-68-4	437003-69-5
	437003-70-8	437003-71-9	437003-72-0	437003-73-1	437003-74-2
	437003-75-3	437003-76-4	437003-77-5	437003-78-6	437003-79-7
	437003-80-0	437003-81-1	437003-82-2	437003-83-3	437003-84-4
	437003-85-5	437003-86-6	437003-87-7	437003-88-8	437003-89-9
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	437003-95-7	437003-96-8	437003-97-9	437003-98-0	437003-99-1
	437004-00-7	437004-01-8	437004-02-9	437004-03-0	437004-04-1
	437004-05-2	437004-06-3	437004-07-4	437004-08-5	437004-09-6
	437004-10-9	437004-11-0	437004-12-1	437004-13-2	437004-14-3
	437004-15-4	437004-16-5	437004-17-6	437004-18-7	437004-19-8
	437004-20-1	437004-21-2	437004-22-3	437004-23-4	437004-24-5
	437004-25-6	437004-26-7	437004-27-8	437004-28-9	437004-29-0
	437004-30-3	437004-31-4	437004-32-5	437004-33-6	437004-34-7
	437004-35-8	437004-36-9	437004-37-0	437004-38-1	437004-39-2
	437004-40-5	437004-41-6	437004-42-7		

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL

(Biological study)

(amino acid sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT	437004-43-8	437004-44-9	437004-45-0	437004-46-1	437004-47-2
	437004-48-3	437004-49-4	437004-50-7	437004-51-8	437004-52-9
	437004-53-0	437004-54-1	437004-55-2	437004-56-3	437004-57-4
	437004-58-5	437004-59-6	437004-60-9	437004-61-0	437004-62-1
	437004-63-2	437004-64-3	437004-65-4	437004-66-5	437004-67-6
	437004-68-7	437004-69-8	437004-70-1	437004-71-2	437004-72-3
	437004-73-4	437004-74-5	437004-75-6	437004-76-7	437004-77-8
	437004-78-9	437004-79-0	437004-80-3	437004-81-4	437004-82-5

437004-83-6	437004-84-7	437004-85-8	437004-86-9	437004-87-0
437004-88-1	437004-89-2	437004-90-5	437004-91-6	437004-92-7
437004-93-8	437004-94-9	437004-95-0	437004-96-1	437004-97-2
437004-98-3	437004-99-4	437005-00-0	437005-01-1	437005-02-2
437005-03-3	437005-04-4	437005-05-5	437005-06-6	437005-07-7
437005-08-8	437005-09-9	437005-10-2	437005-11-3	437005-12-4
437005-13-5	437005-14-6	437005-15-7	437005-16-8	437005-17-9
437005-18-0	437005-19-1	437005-20-4	437005-21-5	437005-22-6
437005-23-7	437005-24-8	437005-25-9	437005-26-0	437005-27-1
437005-28-2	437005-29-3	437005-30-6	437005-31-7	437005-32-8
437005-33-9	437005-34-0	437005-35-1	437005-36-2	437005-37-3
437005-38-4	437005-39-5	437005-40-8	437005-41-9	437005-42-0
437005-43-1	437005-44-2	437005-45-3	437005-46-4	437005-47-5
437005-48-6	437005-49-7	437005-50-0	437005-51-1	437005-52-2
437005-53-3	437005-54-4	437005-55-5	437005-56-6	437005-57-7
437005-58-8	437005-59-9	437005-60-2	437005-61-3	437005-62-4
437005-63-5	437005-64-6	437005-65-7	437005-66-8	437005-67-9
437005-68-0	437005-69-1	437005-70-4	437005-71-5	437005-72-6
437005-73-7	437005-74-8	437005-75-9	437005-76-0	437005-77-1
437005-78-2	437005-79-3	437005-80-6	437005-81-7	437005-82-8
437005-83-9	437005-84-0	437005-85-1	437005-86-2	437005-87-3
437005-88-4	437005-89-5	437005-90-8	437005-91-9	437005-92-0
437005-93-1	437005-94-2	437005-95-3	437005-96-4	437005-97-5
437005-98-6	437005-99-7	437006-00-3	437006-01-4	437006-02-5
437006-03-6	437006-04-7	437006-05-8	437006-06-9	437006-07-0
437006-08-1	437006-09-2	437006-10-5	437006-11-6	437006-12-7
437006-13-8	437006-14-9	437006-15-0	437006-16-1	437006-17-2
437006-18-3	437006-19-4	437006-20-7	437006-21-8	437006-22-9
437006-23-0	437006-24-1	437006-25-2	437006-26-3	437006-27-4
437006-28-5	437006-29-6	437006-30-9	437006-31-0	437006-32-1
437006-33-2	437006-34-3	437006-35-4	437006-36-5	437006-37-6
437006-38-7	437006-39-8	437006-40-1	437006-41-2	437006-42-3
437006-43-4	437006-44-5	437006-45-6	437006-46-7	437006-47-8
437006-48-9	437006-49-0	437006-50-3	437006-51-4	437006-52-5
437006-53-6	437006-54-7	437006-55-8	437006-56-9	437006-57-0
437006-58-1	437006-59-2	437006-60-5	437006-61-6	437006-62-7
437006-63-8	437006-64-9	437006-65-0	437006-66-1	437006-67-2
437006-68-3	437006-69-4	437006-70-7	437006-71-8	437006-72-9
437006-73-0	437006-74-1	437006-75-2	437006-76-3	437006-77-4
437006-78-5	437006-79-6	437006-80-9		

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)

(amino acid sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT	437006-81-0	437006-82-1	437006-83-2	437006-84-3	437006-85-4
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	437006-91-2	437006-92-3	437006-93-4	437006-94-5	437006-95-6
	437006-96-7	437006-97-8	437006-98-9	437006-99-0	437007-00-6
	437007-01-7	437007-02-8	437007-03-9	437007-04-0	437007-05-1
	437007-06-2	437007-07-3	437007-08-4	437007-09-5	437007-10-8
	437007-11-9	437007-12-0	437007-13-1	437007-14-2	437007-15-3
	437007-16-4	437007-17-5	437007-18-6	437007-19-7	437007-20-0
	437007-21-1	437007-22-2	437007-23-3	437007-24-4	437007-25-5
	437007-26-6	437007-27-7	437007-28-8	437007-29-9	437007-30-2
	437007-31-3	437007-32-4	437007-33-5	437007-34-6	437007-35-7
	437007-36-8	437007-37-9	437007-38-0	437007-39-1	437007-40-4
	437007-41-5	437007-42-6	437007-43-7	437007-44-8	437007-45-9
	437007-46-0	437007-47-1	437007-48-2	437007-49-3	437007-50-6
	437007-51-7	437007-52-8	437007-53-9	437007-54-0	437007-55-1
	437007-56-2	437007-57-3	437007-58-4	437007-59-5	437007-60-8
	437007-61-9	437007-62-0	437007-63-1	437007-64-2	437007-65-3
	437007-66-4	437007-67-5	437007-68-6	437007-69-7	437007-70-0
	437007-71-1	437007-72-2	437007-73-3	437007-74-4	437007-75-5

437007-76-6	437007-77-7	437007-78-8	437007-79-9	437007-80-2
437007-81-3	437007-82-4	437007-83-5	437007-84-6	437007-85-7
437007-86-8	437007-87-9	437007-88-0	437007-89-1	437007-90-4
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437007-96-0	437007-97-1	437007-98-2	437007-99-3	437008-00-9
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437008-06-5	437008-07-6	437008-08-7	437008-09-8	437008-10-1
437008-11-2	437008-12-3	437008-13-4	437008-14-5	437008-15-6
437008-16-7	437008-17-8	437008-18-9	437008-19-0	437008-20-3
437008-21-4	437008-22-5	437008-23-6	437008-24-7	437008-25-8
437008-26-9	437008-27-0	437008-28-1	437008-29-2	437008-30-5
437008-31-6	437008-32-7	437008-33-8	437008-34-9	437008-35-0
437008-36-1	437008-37-2	437008-38-3	437008-39-4	437008-40-7
437008-41-8	437008-42-9	437008-43-0	437008-44-1	437008-45-2
437008-46-3	437008-47-4	437008-48-5	437008-49-6	437008-50-9
437008-51-0	437008-52-1	437008-53-2	437008-54-3	437008-55-4
437008-56-5	437008-57-6	437008-58-7	437008-59-8	437008-60-1
437008-61-2	437008-62-3	437008-63-4	437008-64-5	437008-65-6
437008-66-7	437008-67-8	437008-68-9	437008-69-0	437008-70-3
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437008-76-9	437008-77-0	437008-78-1	437008-79-2	437008-80-5
437008-81-6	437008-82-7	437008-83-8	437008-84-9	437008-85-0
437008-86-1	437008-87-2	437008-88-3	437008-89-4	437008-90-7
437008-91-8	437008-92-9	437008-93-0	437008-94-1	437008-95-2
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437009-11-5	437009-12-6	437009-13-7	437009-14-8	437009-15-9
437009-16-0	437009-17-1	437009-18-2		

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)

(amino acid sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT	437009-19-3	437009-20-6	437009-21-7	437009-22-8	437009-23-9
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	437009-29-5	437009-30-8	437009-31-9	437009-32-0	437009-33-1
	437009-34-2	437009-35-3	437009-36-4	437009-37-5	437009-38-6
	437009-39-7	437009-40-0	437009-41-1	437009-42-2	437009-43-3
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	437009-54-6	437009-55-7	437009-56-8	437009-57-9	437009-58-0
	437009-59-1	437009-60-4	437009-61-5	437009-62-6	437009-63-7
	437009-64-8	437009-65-9	437009-66-0	437009-67-1	437009-68-2
	437009-69-3	437009-70-6	437009-71-7	437009-72-8	437009-73-9
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	437009-79-5	437009-80-8	437009-81-9	437009-82-0	437009-83-1
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	437009-94-4	437009-95-5	437009-96-6	437009-97-7	437009-98-8
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	437010-04-3	437010-05-4	437010-06-5	437010-07-6	437010-08-7
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	437010-14-5	437010-15-6	437010-16-7	437010-17-8	437010-18-9
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	437010-24-7	437010-25-8	437010-26-9	437010-27-0	437010-28-1
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	437010-39-4	437010-40-7	437010-41-8	437010-42-9	437010-43-0
	437010-44-1	437010-45-2	437010-46-3	437010-47-4	437010-48-5
	437010-49-6	437010-50-9	437010-51-0	437010-52-1	437010-53-2
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	437010-59-8	437010-60-1	437010-61-2	437010-62-3	437010-63-4
	437010-64-5	437010-65-6	437010-66-7	437010-67-8	437010-68-9

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437010-89-4	437010-90-7	437010-91-8	437010-92-9	437010-93-0
437010-94-1	437010-95-2	437010-96-3	437010-97-4	437010-98-5
437010-99-6	437011-00-2	437011-01-3	437011-02-4	437011-03-5
437011-04-6	437011-05-7	437011-06-8	437011-07-9	437011-08-0
437011-09-1	437011-10-4	437011-11-5	437011-12-6	437011-13-7
437011-14-8	437011-15-9	437011-16-0	437011-17-1	437011-18-2
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437011-24-0	437011-25-1	437011-26-2	437011-27-3	437011-28-4
437011-29-5	437011-30-8	437011-31-9	437011-32-0	437011-33-1
437011-34-2	437011-35-3	437011-36-4	437011-37-5	437011-38-6
437011-39-7	437011-40-0	437011-41-1	437011-42-2	437011-43-3
437011-44-4	437011-45-5	437011-46-6	437011-47-7	437011-48-8
437011-49-9	437011-50-2	437011-51-3	437011-52-4	437011-53-5
437011-54-6	437011-55-7	437011-56-8		

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)

(amino acid sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT	437011-57-9	437011-58-0	437011-59-1	437011-60-4	437011-61-5
	437011-62-6	437011-63-7	437011-64-8	437011-65-9	437011-66-0
	437011-67-1	437011-68-2	437011-69-3	437011-70-6	437011-71-7
	437011-72-8	437011-73-9	437011-74-0	437011-75-1	437011-76-2
	437011-77-3	437011-78-4	437011-79-5	437011-80-8	437011-81-9
	437011-82-0	437011-83-1	437011-84-2	437011-85-3	437011-86-4
	437011-87-5	437011-88-6	437011-89-7	437011-90-0	437011-91-1
	437011-92-2	437011-93-3	437011-94-4	437011-95-5	437011-96-6
	437011-97-7	437011-98-8	437011-99-9	437012-00-5	437012-01-6
	437012-02-7	437012-03-8	437012-04-9	437012-05-0	437012-06-1
	437012-07-2	437012-08-3	437012-09-4	437012-10-7	437012-11-8
	437012-12-9	437012-13-0	437012-14-1	437012-15-2	437012-16-3
	437012-17-4	437012-18-5	437012-19-6	437012-20-9	437012-21-0
	437012-22-1	437012-23-2	437012-24-3	437012-25-4	437012-26-5
	437012-27-6	437012-28-7	437012-29-8	437012-30-1	437012-31-2
	437012-32-3	437012-33-4	437012-34-5	437012-35-6	437012-36-7
	437012-37-8	437012-38-9	437012-39-0	437012-40-3	437012-41-4
	437012-42-5	437012-43-6	437012-44-7	437012-45-8	437012-46-9
	437012-47-0	437012-48-1	437012-49-2	437012-50-5	437012-51-6
	437012-52-7	437012-53-8	437012-54-9	437012-55-0	437012-56-1
	437012-57-2	437012-58-3	437012-59-4	437012-60-7	437012-61-8
	437012-62-9	437012-63-0	437012-64-1	437012-65-2	437012-66-3
	437012-67-4	437012-68-5	437012-69-6	437012-70-9	437012-71-0
	437012-72-1	437012-73-2	437012-74-3	437012-75-4	437012-76-5
	437012-77-6	437012-78-7	437012-79-8	437012-80-1	437012-81-2
	437012-82-3	437012-83-4	437012-84-5	437012-85-6	437012-86-7
	437012-87-8	437012-88-9	437012-89-0	437012-90-3	437012-91-4
	437012-92-5	437012-93-6	437012-94-7	437012-95-8	437012-96-9
	437012-97-0	437012-98-1	437012-99-2	437013-00-8	437013-01-9
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	437013-07-5	437013-08-6	437013-09-7	437013-10-0	437013-11-1
	437013-12-2	437013-13-3	437013-14-4	437013-15-5	437013-16-6
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	437013-22-4	437013-23-5	437013-24-6	437013-25-7	437013-26-8
	437013-27-9	437013-28-0	437013-29-1	437013-30-4	437013-31-5
	437013-32-6	437013-33-7	437013-34-8	437013-35-9	437013-36-0
	437013-37-1	437013-38-2	437013-39-3	437013-40-6	437013-41-7
	437013-42-8	437013-43-9	437013-44-0	437013-45-1	437013-46-2
	437013-47-3	437013-48-4	437013-49-5	437013-50-8	437013-51-9
	437013-52-0	437013-53-1	437013-54-2	437013-55-3	437013-56-4
	437013-57-5	437013-58-6	437013-59-7	437013-60-0	437013-61-1

437013-62-2	437013-63-3	437013-64-4	437013-65-5	437013-66-6
437013-67-7	437013-68-8	437013-69-9	437013-70-2	437013-71-3
437013-72-4	437013-73-5	437013-74-6	437013-75-7	437013-76-8
437013-77-9	437013-78-0	437013-79-1	437013-80-4	437013-81-5
437013-82-6	437013-83-7	437013-84-8	437013-85-9	437013-86-0
437013-87-1	437013-88-2	437013-89-3	437013-90-6	437013-91-7
437013-92-8	437013-93-9	437013-94-0		

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)

(amino acid sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT 437013-95-1 437013-96-2 437013-97-3 437013-98-4 437013-99-5
437014-00-1

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)

(amino acid sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT 436968-05-7 436968-06-8 436968-07-9 436968-08-0 436968-09-1
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436968-20-6 436968-21-7 436968-22-8 436968-23-9 436968-24-0
436968-25-1 436968-26-2 436968-27-3 436968-28-4 436968-29-5
436968-30-8 436968-31-9 436968-32-0 436968-33-1 436968-34-2
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436968-40-0 436968-41-1 436968-42-2 436968-43-3 436968-44-4
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436968-70-6 436968-71-7 436968-72-8 436968-73-9 436968-74-0
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436969-45-8 436969-46-9 436969-47-0 436969-48-1 436969-49-2
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436969-60-7 436969-61-8 436969-62-9 436969-63-0 436969-64-1
436969-65-2 436969-66-3 436969-67-4 436969-68-5 436969-69-6
436969-70-9 436969-71-0 436969-72-1 436969-73-2 436969-74-3
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436969-85-6 436969-86-7 436969-87-8 436969-88-9 436969-89-0
436969-90-3 436969-91-4 436969-92-5 436969-93-6 436969-94-7
436969-95-8 436969-96-9 436969-97-0 436969-98-1 436969-99-2
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436970-30-8 436970-31-9 436970-32-0 436970-33-1 436970-34-2

436970-35-3 436970-36-4 436970-37-5 436970-38-6
 RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

IT	436970-39-7	436970-40-0	436970-41-1	436970-42-2	436970-43-3
	436970-44-4	436970-45-5	436970-46-6	436970-47-7	436970-48-8
	436970-49-9	436970-50-2	436970-51-3	436970-52-4	436970-53-5
	436970-54-6	436970-55-7	436970-56-8	436970-57-9	436970-58-0
	436970-59-1	436970-60-4	436970-61-5	436970-62-6	436970-63-7
	436970-64-8	436970-65-9	436970-66-0	436970-67-1	436970-68-2
	436970-69-3	436970-70-6	436970-71-7	436970-72-8	436970-73-9
	436970-74-0	436970-75-1	436970-76-2	436970-77-3	436970-78-4
	436970-79-5	436970-80-8	436970-81-9	436970-82-0	436970-83-1
	436970-84-2	436970-85-3	436970-86-4	436970-87-5	436970-88-6
	436970-89-7	436970-90-0	436970-91-1	436970-92-2	436970-93-3
	436970-94-4	436970-95-5	436970-96-6	436970-97-7	436970-98-8
	436970-99-9	436971-00-5	436971-01-6	436971-02-7	436971-03-8
	436971-04-9	436971-05-0	436971-06-1	436971-07-2	436971-08-3
	436971-09-4	436971-10-7	436971-11-8	436971-12-9	436971-13-0
	436971-14-1	436971-15-2	436971-16-3	436971-17-4	436971-18-5
	436971-19-6	436971-20-9	436971-21-0	436971-22-1	436971-23-2
	436971-24-3	436971-25-4	436971-26-5	436971-27-6	436971-28-7
	436971-29-8	436971-30-1	436971-31-2	436971-32-3	436971-33-4
	436971-34-5	436971-35-6	436971-36-7	436971-37-8	436971-38-9
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	436971-44-7	436971-45-8	436971-46-9	436971-47-0	436971-48-1
	436971-49-2	436971-50-5	436971-51-6	436971-52-7	436971-53-8
	436971-54-9	436971-55-0	436971-56-1	436971-57-2	436971-58-3
	436971-59-4	436971-60-7	436971-61-8	436971-62-9	436971-63-0
	436971-64-1	436971-65-2	436971-66-3	436971-67-4	436971-68-5
	436971-69-6	436971-70-9	436971-71-0	436971-72-1	436971-73-2
	436971-74-3	436971-75-4	436971-76-5	436971-77-6	436971-78-7
	436971-79-8	436971-80-1	436971-81-2	436971-82-3	436971-83-4
	436971-84-5	436971-85-6	436971-86-7	436971-87-8	436971-88-9
	436971-89-0	436971-90-3	436971-91-4	436971-92-5	436971-93-6
	436971-94-7	436971-95-8	436971-96-9	436971-97-0	436971-98-1
	436971-99-2	436972-00-8	436972-01-9	436972-02-0	436972-03-1
	436972-04-2	436972-05-3	436972-06-4	436972-07-5	436972-08-6
	436972-09-7	436972-10-0	436972-11-1	436972-12-2	436972-13-3
	436972-14-4	436972-15-5	436972-16-6	436972-17-7	436972-18-8
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	436972-24-6	436972-25-7	436972-26-8	436972-27-9	436972-28-0
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	436972-34-8	436972-35-9	436972-36-0	436972-37-1	436972-38-2
	436972-39-3	436972-40-6	436972-41-7	436972-42-8	436972-43-9
	436972-44-0	436972-45-1	436972-46-2	436972-47-3	436972-48-4
	436972-49-5	436972-50-8	436972-51-9	436972-52-0	436972-53-1
	436972-54-2	436972-55-3	436972-56-4	436972-57-5	436972-58-6
	436972-59-7	436972-60-0	436972-61-1	436972-62-2	436972-63-3
	436972-64-4	436972-65-5	436972-66-6	436972-67-7	436972-68-8
	436972-69-9	436972-70-2	436972-71-3	436972-72-4	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

IT	436972-73-5	436972-74-6	436972-75-7	436972-76-8	436972-77-9
	436972-78-0	436972-79-1	436972-80-4	436972-81-5	436972-82-6
	436972-83-7	436972-84-8	436972-85-9	436972-86-0	436972-87-1
	436972-88-2	436972-89-3	436972-90-6	436972-91-7	436972-92-8
	436972-93-9	436972-94-0	436972-95-1	436972-96-2	436972-97-3

436972-98-4	436972-99-5	436973-00-1	436973-01-2	436973-02-3
436973-03-4	436973-04-5	436973-05-6	436973-06-7	436973-07-8
436973-08-9	436973-09-0	436973-10-3	436973-11-4	436973-12-5
436973-13-6	436973-14-7	436973-15-8	436973-16-9	436973-17-0
436973-18-1	436973-19-2	436973-20-5	436973-21-6	436973-22-7
436973-23-8	436973-24-9	436973-25-0	436973-26-1	436973-27-2
436973-28-3	436973-29-4	436973-30-7	436973-31-8	436973-32-9
436973-33-0	436973-34-1	436973-35-2	436973-36-3	436973-37-4
436973-38-5	436973-39-6	436973-40-9	436973-41-0	436973-42-1
436973-43-2	436973-44-3	436973-45-4	436973-46-5	436973-47-6
436973-48-7	436973-49-8	436973-50-1	436973-51-2	436973-52-3
436973-53-4	436973-54-5	436973-55-6	436973-56-7	436973-57-8
436973-58-9	436973-59-0	436973-60-3	436973-61-4	436973-62-5
436973-63-6	436973-64-7	436973-65-8	436973-66-9	436973-67-0
436973-68-1	436973-69-2	436973-70-5	436973-71-6	436973-72-7
436973-73-8	436973-74-9	436973-75-0	436973-76-1	436973-77-2
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436973-88-5	436973-89-6	436973-90-9	436973-91-0	436973-92-1
436973-93-2	436973-94-3	436973-95-4	436973-96-5	436973-97-6
436973-98-7	436973-99-8	436974-00-4	436974-01-5	436974-02-6
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436974-28-6	436974-29-7	436974-30-0	436974-31-1	436974-32-2
436974-33-3	436974-34-4	436974-35-5	436974-36-6	436974-37-7
436974-38-8	436974-39-9	436974-40-2	436974-41-3	436974-42-4
436974-43-5	436974-44-6	436974-45-7	436974-46-8	436974-47-9
436974-48-0	436974-49-1	436974-50-4	436974-51-5	436974-52-6
436974-53-7	436974-54-8	436974-55-9	436974-56-0	436974-57-1
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436974-63-9	436974-64-0	436974-65-1	436974-66-2	436974-67-3
436974-68-4	436974-69-5	436974-70-8	436974-71-9	436974-72-0
436974-73-1	436974-74-2	436974-75-3	436974-76-4	436974-77-5
436974-78-6	436974-79-7	436974-80-0	436974-81-1	436974-82-2
436974-83-3	436974-84-4	436974-85-5	436974-86-6	436974-87-7
436974-88-8	436974-89-9	436974-90-2	436974-91-3	436974-92-4
436974-93-5	436974-94-6	436974-95-7	436974-96-8	436974-97-9
436974-98-0	436974-99-1	436975-00-7	436975-01-8	436975-02-9
436975-03-0	436975-04-1	436975-05-2	436975-06-3	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

IT	436975-07-4	436975-08-5	436975-09-6	436975-10-9	436975-11-0
	436975-12-1	436975-13-2	436975-14-3	436975-15-4	436975-16-5
	436975-17-6	436975-18-7	436975-19-8	436975-20-1	436975-21-2
	436975-22-3	436975-23-4	436975-24-5	436975-25-6	436975-26-7
	436975-27-8	436975-28-9	436975-29-0	436975-30-3	436975-31-4
	436975-32-5	436975-33-6	436975-34-7	436975-35-8	436975-36-9
	436975-37-0	436975-38-1	436975-39-2	436975-40-5	436975-41-6
	436975-42-7	436975-43-8	436975-44-9	436975-45-0	436975-46-1
	436975-47-2	436975-48-3	436975-49-4	436975-50-7	436975-51-8
	436975-52-9	436975-53-0	436975-54-1	436975-55-2	436975-56-3
	436975-57-4	436975-58-5	436975-59-6	436975-60-9	436975-61-0
	436975-62-1	436975-63-2	436975-64-3	436975-65-4	436975-66-5
	436975-67-6	436975-68-7	436975-69-8	436975-70-1	436975-71-2
	436975-72-3	436975-73-4	436975-74-5	436975-75-6	436975-76-7
	436975-77-8	436975-78-9	436975-79-0	436975-80-3	436975-81-4
	436975-82-5	436975-83-6	436975-84-7	436975-85-8	436975-86-9

436975-87-0	436975-88-1	436975-89-2	436975-90-5	436975-91-6
436975-92-7	436975-93-8	436975-94-9	436975-95-0	436975-96-1
436975-97-2	436975-98-3	436975-99-4	436976-00-0	436976-01-1
436976-02-2	436976-03-3	436976-04-4	436976-05-5	436976-06-6
436976-07-7	436976-08-8	436976-09-9	436976-10-2	436976-11-3
436976-12-4	436976-13-5	436976-14-6	436976-15-7	436976-16-8
436976-17-9	436976-18-0	436976-19-1	436976-20-4	436976-21-5
436976-22-6	436976-23-7	436976-24-8	436976-25-9	436976-26-0
436976-27-1	436976-28-2	436976-29-3	436976-30-6	436976-31-7
436976-32-8	436976-33-9	436976-34-0	436976-35-1	436976-36-2
436976-37-3	436976-38-4	436976-39-5	436976-40-8	436976-41-9
436976-42-0	436976-43-1	436976-44-2	436976-45-3	436976-46-4
436976-47-5	436976-48-6	436976-49-7	436976-50-0	436976-51-1
436976-52-2	436976-53-3	436976-54-4	436976-55-5	436976-56-6
436976-57-7	436976-58-8	436976-59-9	436976-60-2	436976-61-3
436976-62-4	436976-63-5	436976-64-6	436976-65-7	436976-66-8
436976-67-9	436976-68-0	436976-69-1	436976-70-4	436976-71-5
436976-72-6	436976-73-7	436976-74-8	436976-75-9	436976-76-0
436976-77-1	436976-78-2	436976-79-3	436976-80-6	436976-81-7
436976-82-8	436976-83-9	436976-84-0	436976-85-1	436976-86-2
436976-87-3	436976-88-4	436976-89-5	436976-90-8	436976-91-9
436976-92-0	436976-93-1	436976-94-2	436976-95-3	436976-96-4
436976-97-5	436976-98-6	436976-99-7	436977-00-3	436977-01-4
436977-02-5	436977-03-6	436977-04-7	436977-05-8	436977-06-9
436977-07-0	436977-08-1	436977-09-2	436977-10-5	436977-11-6
436977-12-7	436977-13-8	436977-14-9	436977-15-0	436977-16-1
436977-17-2	436977-18-3	436977-19-4	436977-20-7	436977-21-8
436977-22-9	436977-23-0	436977-24-1	436977-25-2	436977-26-3
436977-27-4	436977-28-5	436977-29-6	436977-30-9	436977-31-0
436977-32-1	436977-33-2	436977-34-3	436977-35-4	436977-36-5
436977-37-6	436977-38-7	436977-39-8	436977-40-1	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

IT	436977-41-2	436977-42-3	436977-43-4	436977-44-5	436977-45-6
	436977-46-7	436977-47-8	436977-48-9	436977-49-0	436977-50-3
	436977-51-4	436977-52-5	436977-53-6	436977-54-7	436977-55-8
	436977-56-9	436977-57-0	436977-58-1	436977-59-2	436977-60-5
	436977-61-6	436977-62-7	436977-63-8	436977-64-9	436977-65-0
	436977-66-1	436977-67-2	436977-68-3	436977-69-4	436977-70-7
	436977-71-8	436977-72-9	436977-73-0	436977-74-1	436977-75-2
	436977-76-3	436977-77-4	436977-78-5	436977-79-6	436977-80-9
	436977-81-0	436977-82-1	436977-83-2	436977-84-3	436977-85-4
	436977-86-5	436977-87-6	436977-88-7	436977-89-8	436977-90-1
	436977-91-2	436977-92-3	436977-93-4	436977-94-5	436977-95-6
	436977-96-7	436977-97-8	436977-98-9	436977-99-0	436978-00-6
	436978-01-7	436978-02-8	436978-03-9	436978-04-0	436978-05-1
	436978-06-2	436978-07-3	436978-08-4	436978-09-5	436978-10-8
	436978-11-9	436978-12-0	436978-13-1	436978-14-2	436978-15-3
	436978-16-4	436978-17-5	436978-18-6	436978-19-7	436978-20-0
	436978-21-1	436978-22-2	436978-23-3	436978-24-4	436978-25-5
	436978-26-6	436978-27-7	436978-28-8	436978-29-9	436978-30-2
	436978-31-3	436978-32-4	436978-33-5	436978-34-6	436978-35-7
	436978-36-8	436978-37-9	436978-38-0	436978-39-1	436978-40-4
	436978-41-5	436978-42-6	436978-43-7	436978-44-8	436978-45-9
	436978-46-0	436978-47-1	436978-48-2	436978-49-3	436978-50-6
	436978-51-7	436978-52-8	436978-53-9	436978-54-0	436978-55-1
	436978-56-2	436978-57-3	436978-58-4	436978-59-5	436978-60-8
	436978-61-9	436978-62-0	436978-63-1	436978-64-2	436978-65-3
	436978-66-4	436978-67-5	436978-68-6	436978-69-7	436978-70-0
	436978-71-1	436978-72-2	436978-73-3	436978-74-4	436978-75-5

436978-76-6	436978-77-7	436978-78-8	436978-79-9	436978-80-2
436978-81-3	436978-82-4	436978-83-5	436978-84-6	436978-85-7
436978-86-8	436978-87-9	436978-88-0	436978-89-1	436978-90-4
436978-91-5	436978-92-6	436978-93-7	436978-94-8	436978-95-9
436978-96-0	436978-97-1	436978-98-2	436978-99-3	436979-00-9
436979-01-0	436979-02-1	436979-03-2	436979-04-3	436979-05-4
436979-06-5	436979-07-6	436979-08-7	436979-09-8	436979-10-1
436979-11-2	436979-12-3	436979-13-4	436979-14-5	436979-15-6
436979-16-7	436979-17-8	436979-18-9	436979-19-0	436979-20-3
436979-21-4	436979-22-5	436979-23-6	436979-24-7	436979-25-8
436979-26-9	436979-27-0	436979-28-1	436979-29-2	436979-30-5
436979-31-6	436979-32-7	436979-33-8	436979-34-9	436979-35-0
436979-36-1	436979-37-2	436979-38-3	436979-39-4	436979-40-7
436979-41-8	436979-42-9	436979-43-0	436979-44-1	436979-45-2
436979-46-3	436979-47-4	436979-48-5	436979-49-6	436979-50-9
436979-51-0	436979-52-1	436979-53-2	436979-54-3	436979-55-4
436979-56-5	436979-57-6	436979-58-7	436979-59-8	436979-60-1
436979-61-2	436979-62-3	436979-63-4	436979-64-5	436979-65-6
436979-66-7	436979-67-8	436979-68-9	436979-69-0	436979-70-3
436979-71-4	436979-72-5	436979-73-6	436979-74-7	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

IT	436979-75-8	436979-76-9	436979-77-0	436979-78-1	436979-79-2
	436979-80-5	436979-81-6	436979-82-7	436979-83-8	436979-84-9
	436979-85-0	436979-86-1	436979-87-2	436979-88-3	436979-89-4
	436979-90-7	436979-91-8	436979-92-9	436979-93-0	436979-94-1
	436979-95-2	436979-96-3	436979-97-4	436979-98-5	436979-99-6
	436980-00-6	436980-01-7	436980-02-8	436980-03-9	436980-04-0
	436980-05-1	436980-06-2	436980-07-3	436980-08-4	436980-09-5
	436980-10-8	436980-11-9	436980-12-0	436980-13-1	436980-14-2
	436980-15-3	436980-16-4	436980-17-5	436980-18-6	436980-19-7
	436980-20-0	436980-21-1	436980-22-2	436980-23-3	436980-24-4
	436980-25-5	436980-26-6	436980-27-7	436980-28-8	436980-29-9
	436980-30-2	436980-31-3	436980-32-4	436980-33-5	436980-34-6
	436980-35-7	436980-36-8	436980-37-9	436980-38-0	436980-39-1
	436980-40-4	436980-41-5	436980-42-6	436980-43-7	436980-44-8
	436980-45-9	436980-46-0	436980-47-1	436980-48-2	436980-49-3
	436980-50-6	436980-51-7	436980-52-8	436980-53-9	436980-54-0
	436980-55-1	436980-56-2	436980-57-3	436980-58-4	436980-59-5
	436980-60-8	436980-61-9	436980-62-0	436980-63-1	436980-64-2
	436980-65-3	436980-66-4	436980-67-5	436980-68-6	436980-69-7
	436980-70-0	436980-71-1	436980-72-2	436980-73-3	436980-74-4
	436980-75-5	436980-76-6	436980-77-7	436980-78-8	436980-79-9
	436980-80-2	436980-81-3	436980-82-4	436980-83-5	436980-84-6
	436980-85-7	436980-86-8	436980-87-9	436980-88-0	436980-89-1
	436980-90-4	436980-91-5	436980-92-6	436980-93-7	436980-94-8
	436980-95-9	436980-96-0	436980-97-1	436980-98-2	436980-99-3
	436981-00-9	436981-01-0	436981-02-1	436981-03-2	436981-04-3
	436981-05-4	436981-06-5	436981-07-6	436981-08-7	436981-09-8
	436981-10-1	436981-11-2	436981-12-3	436981-13-4	436981-14-5
	436981-15-6	436981-16-7	436981-17-8	436981-18-9	436981-19-0
	436981-20-3	436981-21-4	436981-22-5	436981-23-6	436981-24-7
	436981-25-8	436981-26-9	436981-27-0	436981-28-1	436981-29-2
	436981-30-5	436981-31-6	436981-32-7	436981-33-8	436981-34-9
	436981-35-0	436981-36-1	436981-37-2	436981-38-3	436981-39-4
	436981-40-7	436981-41-8	436981-42-9	436981-43-0	436981-44-1
	436981-45-2	436981-46-3	436981-47-4	436981-48-5	436981-49-6
	436981-50-9	436981-51-0	436981-52-1	436981-53-2	436981-54-3
	436981-55-4	436981-56-5	436981-57-6	436981-58-7	436981-59-8
	436981-60-1	436981-61-2	436981-62-3	436981-63-4	436981-64-5

436981-65-6	436981-66-7	436981-67-8	436981-68-9	436981-69-0
436981-70-3	436981-71-4	436981-72-5	436981-73-6	436981-74-7
436981-75-8	436981-76-9	436981-77-0	436981-78-1	436981-79-2
436981-80-5	436981-81-6	436981-82-7	436981-83-8	436981-84-9
436981-85-0	436981-86-1	436981-87-2	436981-88-3	436981-89-4
436981-90-7	436981-91-8	436981-92-9	436981-93-0	436981-94-1
436981-95-2	436981-96-3	436981-97-4	436981-98-5	436981-99-6
436982-00-2	436982-01-3	436982-02-4	436982-03-5	436982-04-6
436982-05-7	436982-06-8	436982-07-9	436982-08-0	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT	436982-09-1	436982-10-4	436982-11-5	436982-12-6	436982-13-7
	436982-14-8	436982-15-9	436982-16-0	436982-17-1	436982-18-2
	436982-19-3	436982-20-6	436982-21-7	436982-22-8	436982-23-9
	436982-24-0	436982-25-1	436982-26-2	436982-27-3	436982-28-4
	436982-29-5	436982-30-8	436982-31-9	436982-32-0	436982-33-1
	436982-34-2	436982-35-3	436982-36-4	436982-37-5	436982-38-6
	436982-39-7	436982-40-0	436982-41-1	436982-42-2	436982-43-3
	436982-44-4	436982-45-5	436982-46-6	436982-47-7	436982-48-8
	436982-49-9	436982-50-2	436982-51-3	436982-52-4	436982-53-5
	436982-54-6	436982-55-7	436982-56-8	436982-57-9	436982-58-0
	436982-59-1	436982-60-4	436982-61-5	436982-62-6	436982-63-7
	436982-64-8	436982-65-9	436982-66-0	436982-67-1	436982-68-2
	436982-69-3	436982-70-6	436982-71-7	436982-72-8	436982-73-9
	436982-74-0	436982-75-1	436982-76-2	436982-77-3	436982-78-4
	436982-79-5	436982-80-8	436982-81-9	436982-82-0	436982-83-1
	436982-84-2	436982-85-3	436982-86-4	436982-87-5	436982-88-6
	436982-89-7	436982-90-0	436982-91-1	436982-92-2	436982-93-3
	436982-94-4	436982-95-5	436982-96-6	436982-97-7	436982-98-8
	436982-99-9	436983-00-5	436983-01-6	436983-02-7	436983-03-8
	436983-04-9	436983-05-0	436983-06-1	436983-07-2	436983-08-3
	436983-09-4	436983-10-7	436983-11-8	436983-12-9	436983-13-0
	436983-14-1	436983-15-2	436983-16-3	436983-17-4	436983-18-5
	436983-19-6	436983-20-9	436983-21-0	436983-22-1	436983-23-2
	436983-24-3	436983-25-4	436983-26-5	436983-27-6	436983-28-7
	436983-29-8	436983-30-1	436983-31-2	436983-32-3	436983-33-4
	436983-34-5	436983-35-6	436983-36-7	436983-37-8	436983-38-9
	436983-39-0	436983-40-3	436983-41-4	436983-42-5	436983-43-6
	436983-44-7	436983-45-8	436983-46-9	436983-47-0	436983-48-1
	436983-49-2	436983-50-5	436983-51-6	436983-52-7	436983-53-8
	436983-54-9	436983-55-0	436983-56-1	436983-57-2	436983-58-3
	436983-59-4	436983-60-7	436983-61-8	436983-62-9	436983-63-0
	436983-64-1	436983-65-2	436983-66-3	436983-67-4	436983-68-5
	436983-69-6	436983-70-9	436983-71-0	436983-72-1	436983-73-2
	436983-74-3	436983-75-4	436983-76-5	436983-77-6	436983-78-7
	436983-79-8	436983-80-1	436983-81-2	436983-82-3	436983-83-4
	436983-84-5	436983-85-6	436983-86-7	436983-87-8	436983-88-9
	436983-89-0	436983-90-3	436983-91-4	436983-92-5	436983-93-6
	436983-94-7	436983-95-8	436983-96-9	436983-97-0	436983-98-1
	436983-99-2	436984-00-8	436984-01-9	436984-02-0	436984-03-1
	436984-04-2	436984-05-3	436984-06-4	436984-07-5	436984-08-6
	436984-09-7	436984-10-0	436984-11-1	436984-12-2	436984-13-3
	436984-14-4	436984-15-5	436984-16-6	436984-17-7	436984-18-8
	436984-19-9	436984-20-2	436984-21-3	436984-22-4	436984-23-5
	436984-24-6	436984-25-7	436984-26-8	436984-27-9	436984-28-0
	436984-29-1	436984-30-4	436984-31-5	436984-32-6	436984-33-7
	436984-34-8	436984-35-9	436984-36-0	436984-37-1	436984-38-2
	436984-39-3	436984-40-6	436984-41-7	436984-42-8	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical

study); BIOL (Biological study); USES (Uses)
 (nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

IT	436984-43-9	436984-44-0	436984-45-1	436984-46-2	436984-47-3
	436984-48-4	436984-49-5	436984-50-8	436984-51-9	436984-52-0
	436984-53-1	436984-54-2	436984-55-3	436984-56-4	436984-57-5
	436984-58-6	436984-59-7	436984-60-0	436984-61-1	436984-62-2
	436984-63-3	436984-64-4	436984-65-5	436984-66-6	436984-67-7
	436984-68-8	436984-69-9	436984-70-2	436984-71-3	436984-72-4
	436984-73-5	436984-74-6	436984-75-7	436984-76-8	436984-77-9
	436984-78-0	436984-79-1	436984-80-4	436984-81-5	436984-82-6
	436984-83-7	436984-84-8	436984-85-9	436984-86-0	436984-87-1
	436984-88-2	436984-89-3	436984-90-6	436984-91-7	436984-92-8
	436984-93-9	436984-94-0	436984-95-1	436984-96-2	436984-97-3
	436984-98-4	436984-99-5	436985-00-1	436985-01-2	436985-02-3
	436985-03-4	436985-04-5	436985-05-6	436985-06-7	436985-07-8
	436985-08-9	436985-09-0	436985-10-3	436985-11-4	436985-12-5
	436985-13-6	436985-14-7	436985-15-8	436985-16-9	436985-17-0
	436985-18-1	436985-19-2	436985-20-5	436985-21-6	436985-22-7
	436985-23-8	436985-24-9	436985-25-0	436985-26-1	436985-27-2
	436985-28-3	436985-29-4	436985-30-7	436985-31-8	436985-32-9
	436985-33-0	436985-34-1	436985-35-2	436985-36-3	436985-37-4
	436985-38-5	436985-39-6	436985-40-9	436985-41-0	436985-42-1
	436985-43-2	436985-44-3	436985-45-4	436985-46-5	436985-47-6
	436985-48-7	436985-49-8	436985-50-1	436985-51-2	436985-52-3
	436985-53-4	436985-54-5	436985-55-6	436985-56-7	436985-57-8
	436985-58-9	436985-59-0	436985-60-3	436985-61-4	436985-62-5
	436985-63-6	436985-64-7	436985-65-8	436985-66-9	436985-67-0
	436985-68-1	436985-69-2	436985-70-5	436985-71-6	436985-72-7
	436985-73-8	436985-74-9	436985-75-0	436985-76-1	436985-77-2
	436985-78-3	436985-79-4	436985-80-7	436985-81-8	436985-82-9
	436985-83-0	436985-84-1	436985-85-2	436985-86-3	436985-87-4
	436985-88-5	436985-89-6	436985-90-9	436985-91-0	436985-92-1
	436985-93-2	436985-94-3	436985-95-4	436985-96-5	436985-97-6
	436985-98-7	436985-99-8	436986-00-4	436986-01-5	436986-02-6
	436986-03-7	436986-04-8	436986-05-9	436986-06-0	436986-07-1
	436986-08-2	436986-09-3	436986-10-6	436986-11-7	436986-12-8
	436986-13-9	436986-14-0	436986-15-1	436986-16-2	436986-17-3
	436986-18-4	436986-19-5	436986-20-8	436986-21-9	436986-22-0
	436986-23-1	436986-24-2	436986-25-3	436986-26-4	436986-27-5
	436986-28-6	436986-29-7	436986-30-0	436986-31-1	436986-32-2
	436986-33-3	436986-34-4	436986-35-5	436986-36-6	436986-37-7
	436986-38-8	436986-39-9	436986-40-2	436986-41-3	436986-42-4
	436986-43-5	436986-44-6	436986-45-7	436986-46-8	436986-47-9
	436986-48-0	436986-49-1	436986-50-4	436986-51-5	436986-52-6
	436986-53-7	436986-54-8	436986-55-9	436986-56-0	436986-57-1
	436986-58-2	436986-59-3	436986-60-6	436986-61-7	436986-62-8
	436986-63-9	436986-64-0	436986-65-1	436986-66-2	436986-67-3
	436986-68-4	436986-69-5	436986-70-8	436986-71-9	436986-72-0
	436986-73-1	436986-74-2	436986-75-3	436986-76-4	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)
 (nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

IT	436986-77-5	436986-78-6	436986-79-7	436986-80-0	436986-81-1
	436986-82-2	436986-83-3	436986-84-4	436986-85-5	436986-86-6
	436986-87-7	436986-88-8	436986-89-9	436986-90-2	436986-91-3
	436986-92-4	436986-93-5	436986-94-6	436986-95-7	436986-96-8
	436986-97-9	436986-98-0	436986-99-1	436987-00-7	436987-01-8
	436987-02-9	436987-03-0	436987-04-1	436987-05-2	436987-06-3
	436987-07-4	436987-08-5	436987-09-6	436987-10-9	436987-11-0
	436987-12-1	436987-13-2	436987-14-3	436987-15-4	436987-16-5

436987-17-6	436987-18-7	436987-19-8	436987-20-1	436987-21-2
436987-22-3	436987-23-4	436987-24-5	436987-25-6	436987-26-7
436987-27-8	436987-28-9	436987-29-0	436987-30-3	436987-31-4
436987-32-5	436987-33-6	436987-34-7	436987-35-8	436987-36-9
436987-37-0	436987-38-1	436987-39-2	436987-40-5	436987-41-6
436987-42-7	436987-43-8	436987-44-9	436987-45-0	436987-46-1
436987-47-2	436987-48-3	436987-49-4	436987-50-7	436987-51-8
436987-52-9	436987-53-0	436987-54-1	436987-55-2	436987-56-3
436987-57-4	436987-58-5	436987-59-6	436987-60-9	436987-61-0
436987-62-1	436987-63-2	436987-64-3	436987-65-4	436987-66-5
436987-67-6	436987-68-7	436987-69-8	436987-70-1	436987-71-2
436987-72-3	436987-73-4	436987-74-5	436987-75-6	436987-76-7
436987-77-8	436987-78-9	436987-79-0	436987-80-3	436987-81-4
436987-82-5	436987-83-6	436987-84-7	436987-85-8	436987-86-9
436987-87-0	436987-88-1	436987-89-2	436987-90-5	436987-91-6
436987-92-7	436987-93-8	436987-94-9	436987-95-0	436987-96-1
436987-97-2	436987-98-3	436987-99-4	436988-00-0	436988-01-1
436988-02-2	436988-03-3	436988-04-4	436988-05-5	436988-06-6
436988-07-7	436988-08-8	436988-09-9	436988-10-2	436988-11-3
436988-12-4	436988-13-5	436988-14-6	436988-15-7	436988-16-8
436988-17-9	436988-18-0	436988-19-1	436988-20-4	436988-21-5
436988-22-6	436988-23-7	436988-24-8	436988-25-9	436988-26-0
436988-27-1	436988-28-2	436988-29-3	436988-30-6	436988-31-7
436988-32-8	436988-33-9	436988-34-0	436988-35-1	436988-36-2
436988-37-3	436988-38-4	436988-39-5	436988-40-8	436988-41-9
436988-42-0	436988-43-1	436988-44-2	436988-45-3	436988-46-4
436988-47-5	436988-48-6	436988-49-7	436988-50-0	436988-51-1
436988-52-2	436988-53-3	436988-54-4	436988-55-5	436988-56-6
436988-57-7	436988-58-8	436988-59-9	436988-60-2	436988-61-3
436988-62-4	436988-63-5	436988-64-6	436988-65-7	436988-66-8
436988-67-9	436988-68-0	436988-69-1	436988-70-4	436988-71-5
436988-72-6	436988-73-7	436988-74-8	436988-75-9	436988-76-0
436988-77-1	436988-78-2	436988-79-3	436988-80-6	436988-81-7
436988-82-8	436988-83-9	436988-84-0	436988-85-1	436988-86-2
436988-87-3	436988-88-4	436988-89-5	436988-90-8	436988-91-9
436988-92-0	436988-93-1	436988-94-2	436988-95-3	436988-96-4
436988-97-5	436988-98-6	436988-99-7	436989-00-3	436989-01-4
436989-02-5	436989-03-6	436989-04-7	436989-05-8	436989-06-9
436989-07-0	436989-08-1	436989-09-2	436989-10-5	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

IT	436989-11-6	436989-12-7	436989-13-8	436989-14-9	436989-15-0
	436989-16-1	436989-17-2	436989-18-3	436989-19-4	436989-20-7
	436989-21-8	436989-22-9	436989-23-0	436989-24-1	436989-25-2
	436989-26-3	436989-27-4	436989-28-5	436989-29-6	436989-30-9
	436989-31-0	436989-32-1	436989-33-2	436989-34-3	436989-35-4
	436989-36-5	436989-37-6	436989-38-7	436989-39-8	436989-40-1
	436989-41-2	436989-42-3	436989-43-4	436989-44-5	436989-45-6
	436989-46-7	436989-47-8	436989-48-9	436989-49-0	436989-50-3
	436989-51-4	436989-52-5	436989-53-6	436989-54-7	436989-55-8
	436989-56-9	436989-57-0	436989-58-1	436989-59-2	436989-60-5
	436989-61-6	436989-62-7	436989-63-8	436989-64-9	436989-65-0
	436989-66-1	436989-67-2	436989-68-3	436989-69-4	436989-70-7
	436989-71-8	436989-72-9	436989-73-0	436989-74-1	436989-75-2
	436989-76-3	436989-77-4	436989-78-5	436989-79-6	436989-80-9
	436989-81-0	436989-82-1	436989-83-2	436989-84-3	436989-85-4
	436989-86-5	436989-87-6	436989-88-7	436989-89-8	436989-90-1
	436989-91-2	436989-92-3	436989-93-4	436989-94-5	436989-95-6
	436989-96-7	436989-97-8	436989-98-9	436989-99-0	436990-00-0
	436990-01-1	436990-02-2	436990-03-3	436990-04-4	436990-05-5

436990-06-6	436990-07-7	436990-08-8	436990-09-9	436990-10-2
436990-11-3	436990-12-4	436990-13-5	436990-14-6	436990-15-7
436990-16-8	436990-17-9	436990-18-0	436990-19-1	436990-20-4
436990-21-5	436990-22-6	436990-23-7	436990-24-8	436990-25-9
436990-26-0	436990-27-1	436990-28-2	436990-29-3	436990-30-6
436990-31-7	436990-32-8	436990-33-9	436990-34-0	436990-35-1
436990-36-2	436990-37-3	436990-38-4	436990-39-5	436990-40-8
436990-41-9	436990-42-0	436990-43-1	436990-44-2	436990-45-3
436990-46-4	436990-47-5	436990-48-6	436990-49-7	436990-50-0
436990-51-1	436990-52-2	436990-53-3	436990-54-4	436990-55-5
436990-56-6	436990-57-7	436990-58-8	436990-59-9	436990-60-2
436990-61-3	436990-62-4	436990-63-5	436990-64-6	436990-65-7
436990-66-8	436990-67-9	436990-68-0	436990-69-1	436990-70-4
436990-71-5	436990-72-6	436990-73-7	436990-74-8	436990-75-9
436990-76-0	436990-77-1	436990-78-2	436990-79-3	436990-80-6
436990-81-7	436990-82-8	436990-83-9	436990-84-0	436990-85-1
436990-86-2	436990-87-3	436990-88-4	436990-89-5	436990-90-8
436990-91-9	436990-92-0	436990-93-1	436990-94-2	436990-95-3
436990-96-4	436990-97-5	436990-98-6	436990-99-7	436991-00-3
436991-01-4	436991-02-5	436991-03-6	436991-04-7	436991-05-8
436991-06-9	436991-07-0	436991-08-1	436991-09-2	436991-10-5
436991-11-6	436991-12-7	436991-13-8	436991-14-9	436991-15-0
436991-16-1	436991-17-2	436991-18-3	436991-19-4	436991-20-7
436991-21-8	436991-22-9	436991-23-0	436991-24-1	436991-25-2
436991-26-3	436991-27-4	436991-28-5	436991-29-6	436991-30-9
436991-31-0	436991-32-1	436991-33-2	436991-34-3	436991-35-4
436991-36-5	436991-37-6	436991-38-7	436991-39-8	436991-40-1
436991-41-2	436991-42-3	436991-43-4	436991-44-5	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

IT	436991-45-6	436991-46-7	436991-47-8	436991-48-9	436991-49-0
	436991-50-3	436991-51-4	436991-52-5	436991-53-6	436991-54-7
	436991-55-8	436991-56-9	436991-57-0	436991-58-1	436991-59-2
	436991-60-5	436991-61-6	436991-62-7	436991-63-8	436991-64-9
	436991-65-0	436991-66-1	436991-67-2	436991-68-3	436991-69-4
	436991-70-7	436991-71-8	436991-72-9	436991-73-0	436991-74-1
	436991-75-2	436991-76-3	436991-77-4	436991-78-5	436991-79-6
	436991-80-9	436991-81-0	436991-82-1	436991-83-2	436991-84-3
	436991-85-4	436991-86-5	436991-87-6	436991-88-7	436991-89-8
	436991-90-1	436991-91-2	436991-92-3	436991-93-4	436991-94-5
	436991-95-6	436991-96-7	436991-97-8	436991-98-9	436991-99-0
	436992-00-6	436992-01-7	436992-02-8	436992-03-9	436992-04-0
	436992-05-1	436992-06-2	436992-07-3	436992-08-4	436992-09-5
	436992-10-8	436992-11-9	436992-12-0	436992-13-1	436992-14-2
	436992-15-3	436992-16-4	436992-17-5	436992-18-6	436992-19-7
	436992-20-0	436992-21-1	436992-22-2	436992-23-3	436992-24-4
	436992-25-5	436992-26-6	436992-27-7	436992-28-8	436992-29-9
	436992-30-2	436992-31-3	436992-32-4	436992-33-5	436992-34-6
	436992-35-7	436992-36-8	436992-37-9	436992-38-0	436992-39-1
	436992-40-4	436992-41-5	436992-42-6	436992-43-7	436992-44-8
	436992-45-9	436992-46-0	436992-47-1	436992-48-2	436992-49-3
	436992-50-6	436992-51-7	436992-52-8	436992-53-9	436992-54-0
	436992-55-1	436992-56-2	436992-57-3	436992-58-4	436992-59-5
	436992-60-8	436992-61-9	436992-62-0	436992-63-1	436992-64-2
	436992-65-3	436992-66-4	436992-67-5	436992-68-6	436992-69-7
	436992-70-0	436992-71-1	436992-72-2	436992-73-3	436992-74-4
	436992-75-5	436992-76-6	436992-77-7	436992-78-8	436992-79-9
	436992-80-2	436992-81-3	436992-82-4	436992-83-5	436992-84-6
	436992-85-7	436992-86-8	436992-87-9	436992-88-0	436992-89-1
	436992-90-4	436992-91-5	436992-92-6	436992-93-7	436992-94-8

436992-95-9	436992-96-0	436992-97-1	436992-98-2	436992-99-3
436993-00-9	436993-01-0	436993-02-1	436993-03-2	436993-04-3
436993-05-4	436993-06-5	436993-07-6	436993-08-7	436993-09-8
436993-10-1	436993-11-2	436993-12-3	436993-13-4	436993-14-5
436993-15-6	436993-16-7	436993-17-8	436993-18-9	436993-19-0
436993-20-3	436993-21-4	436993-22-5	436993-23-6	436993-24-7
436993-25-8	436993-26-9	436993-27-0	436993-28-1	436993-29-2
436993-30-5	436993-31-6	436993-32-7	436993-33-8	436993-34-9
436993-35-0	436993-36-1	436993-37-2	436993-38-3	436993-39-4
436993-40-7	436993-41-8	436993-42-9	436993-43-0	436993-44-1
436993-45-2	436993-46-3	436993-47-4	436993-48-5	436993-49-6
436993-50-9	436993-51-0	436993-52-1	436993-53-2	436993-54-3
436993-55-4	436993-56-5	436993-57-6	436993-58-7	436993-59-8
436993-60-1	436993-61-2	436993-62-3	436993-63-4	436993-64-5
436993-65-6	436993-66-7	436993-67-8	436993-68-9	436993-69-0
436993-70-3	436993-71-4	436993-72-5	436993-73-6	436993-74-7
436993-75-8	436993-76-9	436993-77-0	436993-78-1	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT	436993-79-2	436993-80-5	436993-81-6	436993-82-7	436993-83-8
	436993-84-9	436993-85-0	436993-86-1	436993-87-2	436993-88-3
	436993-89-4	436993-90-7	436993-91-8	436993-92-9	436993-93-0
	436993-94-1	436993-95-2	436993-96-3	436993-97-4	436993-98-5
	436993-99-6	436994-00-2	436994-01-3	436994-02-4	436994-03-5
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RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
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(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

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(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

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RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

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study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

TI Human genome derived single exon nucleic acid probes useful for gene expression analysis
 IN Penn, Sharron Gaynor; Rank, David Russell; Chen, Wensheng; Hanzel, David Kagen
 PA USA
 SO U.S. Pat. Appl. Publ., 97 pp., Cont.-in-part of U.S. Ser. No. 774,203.
 CODEN: USXXCO
 DT Patent
 LA English
 IC C12Q001-68; C07H021-04
 NCL 435006000
 CC 3-1 (Biochemical Genetics)
 Section cross-reference(s): 13

FAN.CNT 87

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	GB 2361238	A1	20011017	GB 2001-15281	20001004
	GB 2361238	B2	20020306		
	US 2002081590	A1	20020627	US 2001-774203	20010129
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HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
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BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
WO 2001057278 A2 20010809 WO 2001-US670 20010130
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SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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WO 2001086003 A2 20011115 WO 2001-US665 20010130
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	US 2002102252	A1	20020801	US 2001-827998	20010406
PRAI	US 2000-180312P	P	20000204		
	US 2000-207456P	P	20000526		
	US 2000-608408	A2	20000630		
	US 2000-632366	A2	20000803		
	US 2000-234687P	P	20000921		
	US 2000-236359P	P	20000927		
	GB 2000-24263	A	20001004		
	US 2001-774203	A2	20010129		
	WO 2001-US661	A2	20010130		
	WO 2001-US662	A2	20010130		
	WO 2001-US663	A2	20010130		
	WO 2001-US664	A2	20010130		
	WO 2001-US665	A2	20010130		
	WO 2001-US666	A2	20010130		
	WO 2001-US667	A2	20010130		
	WO 2001-US668	A2	20010130		
	WO 2001-US669	A2	20010130		
	WO 2001-US670	A2	20010130		
	US 2001-266860P	P	20010205		

AB Methods and app. for predicting, confirming and displaying functional regions from genomic sequence data are used to identify 16,834 unique human genome-derived single exon probes useful for gene expression anal., particularly gene expression anal. by microarray. Also presented are genome-derived single exon microarrays that include such probes, peptides encoded by the exons, and antibodies thereto. The human genome-derived single-exon probes are known to be expressed in one or more human tissues or cell types, particularly human brain, heart, liver, fetal liver, placenta, lung, bone marrow, BT474 and other human mammary epithelial cells, HeLa and other human cervical epithelial cells, and HBL 100 and other human mammary epithelial cells. The invention provides a method of financing, selling and/or licensing genome-derived single-exon microarrays to customer desiring to measure gene expression, comprising: making available for computerized query or subscription service a database having a record corresponding to each genome-derived single exon microarray available for sale and/or license. [This abstr. record is one of ten records for this document necessitated by the large no. of index entries required to fully index the document and publication system constraints.].

ST genome exon probe gene expression analysis; microarray exon probe gene expression analysis human; sequence gene exon probe human; business genome exon probe gene expression analysis

IT Animal cell line
 (BT 474; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Animal cell line
 (HBL 100; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Graph theory
 (Mondrian representation of sequence and expression data; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Liver
 (adult and fetal; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Industry
 (bioinformatic; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Uterus
 (cervix, epithelium; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Mammary gland
(epithelium; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Genetic element
RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(exon; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Computer application
(for storage of sequence and gene expression data; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Bioinformatics
Bone marrow
Brain
DNA microarray technology
DNA sequences
Databases
HeLa cell
Heart
Human
Lung
Molecular cloning
Placenta
Protein sequences
(human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Gene, animal
RL: ANT (Analyte); BSU (Biological study, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study)
(human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Antibodies
RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Probes (nucleic acid)
RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT Nucleic acids
RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(labeled; human genome derived single exon nucleic acid probes useful for gene expression anal.)

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RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

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RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

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RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

IT	436593-97-4	436593-98-5	436593-99-6	436594-00-2	436594-01-3
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	436594-22-8	436594-23-9	436594-24-0	436594-25-1	436594-26-2
	436594-27-3	436594-28-4	436594-29-5	436594-30-8	436594-31-9
	436594-32-0	436594-33-1	436594-34-2	436594-35-3	436594-36-4
	436594-37-5	436594-38-6	436594-39-7	436594-40-0	436594-41-1
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	436594-52-4	436594-53-5	436594-54-6	436594-55-7	436594-56-8
	436594-57-9	436594-58-0	436594-59-1	436594-60-4	436594-61-5
	436594-62-6	436594-63-7	436594-64-8	436594-65-9	436594-66-0
	436594-67-1	436594-68-2	436594-69-3	436594-70-6	436594-71-7
	436594-72-8	436594-73-9	436594-74-0	436594-75-1	436594-76-2
	436594-77-3	436594-78-4	436594-79-5	436594-80-8	436594-81-9
	436594-82-0	436594-83-1	436594-84-2	436594-85-3	436594-86-4
	436594-87-5	436594-88-6	436594-89-7	436594-90-0	436594-91-1
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	436594-97-7	436594-98-8	436594-99-9	436595-00-5	436595-01-6
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	436595-07-2	436595-08-3	436595-09-4	436595-10-7	436595-11-8
	436595-12-9	436595-13-0	436595-14-1	436595-15-2	436595-16-3
	436595-17-4	436595-18-5	436595-19-6	436595-20-9	436595-21-0
	436595-22-1	436595-23-2	436595-24-3	436595-25-4	436595-26-5
	436595-27-6	436595-28-7	436595-29-8	436595-30-1	436595-31-2
	436595-32-3	436595-33-4	436595-34-5	436595-35-6	436595-36-7
	436595-37-8	436595-38-9	436595-39-0	436595-40-3	436595-41-4
	436595-42-5	436595-43-6	436595-44-7	436595-45-8	436595-46-9
	436595-47-0	436595-48-1	436595-49-2	436595-50-5	436595-51-6
	436595-52-7	436595-53-8	436595-54-9	436595-55-0	436595-56-1
	436595-57-2	436595-58-3	436595-59-4	436595-60-7	436595-61-8
	436595-62-9	436595-63-0	436595-64-1	436595-65-2	436595-66-3
	436595-67-4	436595-68-5	436595-69-6	436595-70-9	436595-71-0
	436595-72-1	436595-73-2	436595-74-3	436595-75-4	436595-76-5
	436595-77-6	436595-78-7	436595-79-8	436595-80-1	436595-81-2
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	436595-87-8	436595-88-9	436595-89-0	436595-90-3	436595-91-4
	436595-92-5	436595-93-6	436595-94-7	436595-95-8	436595-96-9
	436595-97-0	436595-98-1	436595-99-2	436596-00-8	436596-01-9
	436596-02-0	436596-03-1	436596-04-2	436596-05-3	436596-06-4
	436596-07-5	436596-08-6	436596-09-7	436596-10-0	436596-11-1
	436596-12-2	436596-13-3	436596-14-4	436596-15-5	436596-16-6
	436596-17-7	436596-18-8	436596-19-9	436596-20-2	436596-21-3
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	436596-27-9	436596-28-0	436596-29-1	436596-30-4	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

IT	436596-31-5	436596-32-6	436596-33-7	436596-34-8	436596-35-9
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	436596-41-7	436596-42-8	436596-43-9	436596-44-0	436596-45-1
	436596-46-2	436596-47-3	436596-48-4	436596-49-5	436596-50-8
	436596-51-9	436596-52-0	436596-53-1	436596-54-2	436596-55-3
	436596-56-4	436596-57-5	436596-58-6	436596-59-7	436596-60-0
	436596-61-1	436596-62-2	436596-63-3	436596-64-4	436596-65-5
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	436596-71-3	436596-72-4	436596-73-5	436596-74-6	436596-75-7
	436596-76-8	436596-77-9	436596-78-0	436596-79-1	436596-80-4
	436596-81-5	436596-82-6	436596-83-7	436596-84-8	436596-85-9
	436596-86-0	436596-87-1	436596-88-2	436596-89-3	436596-90-6
	436596-91-7	436596-92-8	436596-93-9	436596-94-0	436596-95-1
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	436597-01-2	436597-02-3	436597-03-4	436597-04-5	436597-05-6
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	436597-11-4	436597-12-5	436597-13-6	436597-14-7	436597-15-8
	436597-16-9	436597-17-0	436597-18-1	436597-19-2	436597-20-5
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	436597-36-3	436597-37-4	436597-38-5	436597-39-6	436597-40-9
	436597-41-0	436597-42-1	436597-43-2	436597-44-3	436597-45-4
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	436597-61-4	436597-62-5	436597-63-6	436597-64-7	436597-65-8
	436597-66-9	436597-67-0	436597-68-1	436597-69-2	436597-70-5
	436597-71-6	436597-72-7	436597-73-8	436597-74-9	436597-75-0
	436597-76-1	436597-77-2	436597-78-3	436597-79-4	436597-80-7
	436597-81-8	436597-82-9	436597-83-0	436597-84-1	436597-85-2
	436597-86-3	436597-87-4	436597-88-5	436597-89-6	436597-90-9
	436597-91-0	436597-92-1	436597-93-2	436597-94-3	436597-95-4
	436597-96-5	436597-97-6	436597-98-7	436597-99-8	436598-00-4
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	436598-16-2	436598-17-3	436598-18-4	436598-19-5	436598-20-8
	436598-21-9	436598-22-0	436598-23-1	436598-24-2	436598-25-3
	436598-26-4	436598-27-5	436598-28-6	436598-29-7	436598-30-0
	436598-31-1	436598-32-2	436598-33-3	436598-34-4	436598-35-5
	436598-36-6	436598-37-7	436598-38-8	436598-39-9	436598-40-2
	436598-41-3	436598-42-4	436598-43-5	436598-44-6	436598-45-7
	436598-46-8	436598-47-9	436598-48-0	436598-49-1	436598-50-4
	436598-51-5	436598-52-6	436598-53-7	436598-54-8	436598-55-9
	436598-56-0	436598-57-1	436598-58-2	436598-59-3	436598-60-6
	436598-61-7	436598-62-8	436598-63-9	436598-64-0	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

IT	436598-65-1	436598-66-2	436598-67-3	436598-68-4	436598-69-5
	436598-70-8	436598-71-9	436598-72-0	436598-73-1	436598-74-2
	436598-75-3	436598-76-4	436598-77-5	436598-78-6	436598-79-7
	436598-80-0	436598-81-1	436598-82-2	436598-83-3	436598-84-4
	436598-85-5	436598-86-6	436598-87-7	436598-88-8	436598-89-9
	436598-90-2	436598-91-3	436598-92-4	436598-93-5	436598-94-6

436598-95-7	436598-96-8	436598-97-9	436598-98-0	436598-99-1
436599-00-7	436599-01-8	436599-02-9	436599-03-0	436599-04-1
436599-05-2	436599-06-3	436599-07-4	436599-08-5	436599-09-6
436599-10-9	436599-11-0	436599-12-1	436599-13-2	436599-14-3
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436599-25-6	436599-26-7	436599-27-8	436599-28-9	436599-29-0
436599-30-3	436599-31-4	436599-32-5	436599-33-6	436599-34-7
436599-35-8	436599-36-9	436599-37-0	436599-38-1	436599-39-2
436599-40-5	436599-41-6	436599-42-7	436599-43-8	436599-44-9
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436599-50-7	436599-51-8	436599-52-9	436599-53-0	436599-54-1
436599-55-2	436599-56-3	436599-57-4	436599-58-5	436599-59-6
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436599-75-6	436599-76-7	436599-77-8	436599-78-9	436599-79-0
436599-80-3	436599-81-4	436599-82-5	436599-83-6	436599-84-7
436599-85-8	436599-86-9	436599-87-0	436599-88-1	436599-89-2
436599-90-5	436599-91-6	436599-92-7	436599-93-8	436599-94-9
436599-95-0	436599-96-1	436599-97-2	436599-98-3	436599-99-4
436600-00-9	436600-01-0	436600-02-1	436600-03-2	436600-04-3
436600-05-4	436600-06-5	436600-07-6	436600-08-7	436600-09-8
436600-10-1	436600-11-2	436600-12-3	436600-13-4	436600-14-5
436600-15-6	436600-16-7	436600-17-8	436600-18-9	436600-19-0
436600-20-3	436600-21-4	436600-22-5	436600-23-6	436600-24-7
436600-25-8	436600-26-9	436600-27-0	436600-28-1	436600-29-2
436600-30-5	436600-31-6	436600-32-7	436600-33-8	436600-34-9
436600-35-0	436600-36-1	436600-37-2	436600-38-3	436600-39-4
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436600-45-2	436600-46-3	436600-47-4	436600-48-5	436600-49-6
436600-50-9	436600-51-0	436600-52-1	436600-53-2	436600-54-3
436600-55-4	436600-56-5	436600-57-6	436600-58-7	436600-59-8
436600-60-1	436600-61-2	436600-62-3	436600-63-4	436600-64-5
436600-65-6	436600-66-7	436600-67-8	436600-68-9	436600-69-0
436600-70-3	436600-71-4	436600-72-5	436600-73-6	436600-74-7
436600-75-8	436600-76-9	436600-77-0	436600-78-1	436600-79-2
436600-80-5	436600-81-6	436600-82-7	436600-83-8	436600-84-9
436600-85-0	436600-86-1	436600-87-2	436600-88-3	436600-89-4
436600-90-7	436600-91-8	436600-92-9	436600-93-0	436600-94-1
436600-95-2	436600-96-3	436600-97-4	436600-98-5	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

IT	436600-99-6	436601-00-2	436601-01-3	436601-02-4	436601-03-5
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	436601-09-1	436601-10-4	436601-11-5	436601-12-6	436601-13-7
	436601-14-8	436601-15-9	436601-16-0	436601-17-1	436601-18-2
	436601-19-3	436601-20-6	436601-21-7	436601-22-8	436601-23-9
	436601-24-0	436601-25-1	436601-26-2	436601-27-3	436601-28-4
	436601-29-5	436601-30-8	436601-31-9	436601-32-0	436601-33-1
	436601-34-2	436601-35-3	436601-36-4	436601-37-5	436601-38-6
	436601-39-7	436601-40-0	436601-41-1	436601-42-2	436601-43-3
	436601-44-4	436601-45-5	436601-46-6	436601-47-7	436601-48-8
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	436601-54-6	436601-55-7	436601-56-8	436601-57-9	436601-58-0
	436601-59-1	436601-60-4	436601-61-5	436601-62-6	436601-63-7
	436601-64-8	436601-65-9	436601-66-0	436601-67-1	436601-68-2
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	436601-74-0	436601-75-1	436601-76-2	436601-77-3	436601-78-4
	436601-79-5	436601-80-8	436601-81-9	436601-82-0	436601-83-1

436601-84-2	436601-85-3	436601-86-4	436601-87-5	436601-88-6
436601-89-7	436601-90-0	436601-91-1	436601-92-2	436601-93-3
436601-94-4	436601-95-5	436601-96-6	436601-97-7	436601-98-8
436601-99-9	436602-00-5	436602-01-6	436602-02-7	436602-03-8
436602-04-9	436602-05-0	436602-06-1	436602-07-2	436602-08-3
436602-09-4	436602-10-7	436602-11-8	436602-12-9	436602-13-0
436602-14-1	436602-15-2	436602-16-3	436602-17-4	436602-18-5
436602-19-6	436602-20-9	436602-21-0	436602-22-1	436602-23-2
436602-24-3	436602-25-4	436602-26-5	436602-27-6	436602-28-7
436602-29-8	436602-30-1	436602-31-2	436602-32-3	436602-33-4
436602-34-5	436602-35-6	436602-36-7	436602-37-8	436602-38-9
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436602-44-7	436602-45-8	436602-46-9	436602-47-0	436602-48-1
436602-49-2	436602-50-5	436602-51-6	436602-52-7	436602-53-8
436602-54-9	436602-55-0	436602-56-1	436602-57-2	436602-58-3
436602-59-4	436602-60-7	436602-61-8	436602-62-9	436602-63-0
436602-64-1	436602-65-2	436602-66-3	436602-67-4	436602-68-5
436602-69-6	436602-70-9	436602-71-0	436602-72-1	436602-73-2
436602-74-3	436602-75-4	436602-76-5	436602-77-6	436602-78-7
436602-79-8	436602-80-1	436602-81-2	436602-82-3	436602-83-4
436602-84-5	436602-85-6	436602-86-7	436602-87-8	436602-88-9
436602-89-0	436602-90-3	436602-91-4	436602-92-5	436602-93-6
436602-94-7	436602-95-8	436602-96-9	436602-97-0	436602-98-1
436602-99-2	436603-00-8	436603-01-9	436603-02-0	436603-03-1
436603-04-2	436603-05-3	436603-06-4	436603-07-5	436603-08-6
436603-09-7	436603-10-0	436603-11-1	436603-12-2	436603-13-3
436603-14-4	436603-15-5	436603-16-6	436603-17-7	436603-18-8
436603-19-9	436603-20-2	436603-21-3	436603-22-4	436603-23-5
436603-24-6	436603-25-7	436603-26-8	436603-27-9	436603-28-0
436603-29-1	436603-30-4	436603-31-5	436603-32-6	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT	436603-33-7	436603-34-8	436603-35-9	436603-36-0	436603-37-1
	436603-38-2	436603-39-3	436603-40-6	436603-41-7	436603-42-8
	436603-43-9	436603-44-0	436603-45-1	436603-46-2	436603-47-3
	436603-48-4	436603-49-5	436603-50-8	436603-51-9	436603-52-0
	436603-53-1	436603-54-2	436603-55-3	436603-56-4	436603-57-5
	436603-58-6	436603-59-7	436603-60-0	436603-61-1	436603-62-2
	436603-63-3	436603-64-4	436603-65-5	436603-66-6	436603-67-7
	436603-68-8	436603-69-9	436603-70-2	436603-71-3	436603-72-4
	436603-73-5	436603-74-6	436603-75-7	436603-76-8	436603-77-9
	436603-78-0	436603-79-1	436603-80-4	436603-81-5	436603-82-6
	436603-83-7	436603-84-8	436603-85-9	436603-86-0	436603-87-1
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	436603-93-9	436603-94-0	436603-95-1	436603-96-2	436603-97-3
	436603-98-4	436603-99-5	436604-00-1	436604-01-2	436604-02-3
	436604-03-4	436604-04-5	436604-05-6	436604-06-7	436604-07-8
	436604-08-9	436604-09-0	436604-10-3	436604-11-4	436604-12-5
	436604-13-6	436604-14-7	436604-15-8	436604-16-9	436604-17-0
	436604-18-1	436604-19-2	436604-20-5	436604-21-6	436604-22-7
	436604-23-8	436604-24-9	436604-25-0	436604-26-1	436604-27-2
	436604-28-3	436604-29-4	436604-30-7	436604-31-8	436604-32-9
	436604-33-0	436604-34-1	436604-35-2	436604-36-3	436604-37-4
	436604-38-5	436604-39-6	436604-40-9	436604-41-0	436604-42-1
	436604-43-2	436604-44-3	436604-45-4	436604-46-5	436604-47-6
	436604-48-7	436604-49-8	436604-50-1	436604-51-2	436604-52-3
	436604-53-4	436604-54-5	436604-55-6	436604-56-7	436604-57-8
	436604-58-9	436604-59-0	436604-60-3	436604-61-4	436604-62-5
	436604-63-6	436604-64-7	436604-65-8	436604-66-9	436604-67-0
	436604-68-1	436604-69-2	436604-70-5	436604-71-6	436604-72-7

436604-73-8	436604-74-9	436604-75-0	436604-76-1	436604-77-2
436604-78-3	436604-79-4	436604-80-7	436604-81-8	436604-82-9
436604-83-0	436604-84-1	436604-85-2	436604-86-3	436604-87-4
436604-88-5	436604-89-6	436604-90-9	436604-91-0	436604-92-1
436604-93-2	436604-94-3	436604-95-4	436604-96-5	436604-97-6
436604-98-7	436604-99-8	436605-00-4	436605-01-5	436605-02-6
436605-03-7	436605-04-8	436605-05-9	436605-06-0	436605-07-1
436605-08-2	436605-09-3	436605-10-6	436605-11-7	436605-12-8
436605-13-9	436605-14-0	436605-15-1	436605-16-2	436605-17-3
436605-18-4	436605-19-5	436605-20-8	436605-21-9	436605-22-0
436605-23-1	436605-24-2	436605-25-3	436605-26-4	436605-27-5
436605-28-6	436605-29-7	436605-30-0	436605-31-1	436605-32-2
436605-33-3	436605-34-4	436605-35-5	436605-36-6	436605-37-7
436605-38-8	436605-39-9	436605-40-2	436605-41-3	436605-42-4
436605-43-5	436605-44-6	436605-45-7	436605-46-8	436605-47-9
436605-48-0	436605-49-1	436605-50-4	436605-51-5	436605-52-6
436605-53-7	436605-54-8	436605-55-9	436605-56-0	436605-57-1
436605-58-2	436605-59-3	436605-60-6	436605-61-7	436605-62-8
436605-63-9	436605-64-0	436605-65-1	436605-66-2	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT	436605-67-3	436605-68-4	436605-69-5	436605-70-8	436605-71-9
	436605-72-0	436605-73-1	436605-74-2	436605-75-3	436605-76-4
	436605-77-5	436605-78-6	436605-79-7	436605-80-0	436605-81-1
	436605-82-2	436605-83-3	436605-84-4	436605-85-5	436605-86-6
	436605-87-7	436605-88-8	436605-89-9	436605-90-2	436605-91-3
	436605-92-4	436605-93-5	436605-94-6	436605-95-7	436605-96-8
	436605-97-9	436605-98-0	436605-99-1	436606-00-7	436606-01-8
	436606-02-9	436606-03-0	436606-04-1	436606-05-2	436606-06-3
	436606-07-4	436606-08-5	436606-09-6	436606-10-9	436606-11-0
	436606-12-1	436606-13-2	436606-14-3	436606-15-4	436606-16-5
	436606-17-6	436606-18-7	436606-19-8	436606-20-1	436606-21-2
	436606-22-3	436606-23-4	436606-24-5	436606-25-6	436606-26-7
	436606-27-8	436606-28-9	436606-29-0	436606-30-3	436606-31-4
	436606-32-5	436606-33-6	436606-34-7	436606-35-8	436606-36-9
	436606-37-0	436606-38-1	436606-39-2	436606-40-5	436606-41-6
	436606-42-7	436606-43-8	436606-44-9	436606-45-0	436606-46-1
	436606-47-2	436606-48-3	436606-49-4	436606-50-7	436606-51-8
	436606-52-9	436606-53-0	436606-54-1	436606-55-2	436606-56-3
	436606-57-4	436606-58-5	436606-59-6	436606-60-9	436606-61-0
	436606-62-1	436606-63-2	436606-64-3	436606-65-4	436606-66-5
	436606-67-6	436606-68-7	436606-69-8	436606-70-1	436606-71-2
	436606-72-3	436606-73-4	436606-74-5	436606-75-6	436606-76-7
	436606-77-8	436606-78-9	436606-79-0	436606-80-3	436606-81-4
	436606-82-5	436606-83-6	436606-84-7	436606-85-8	436606-86-9
	436606-87-0	436606-88-1	436606-89-2	436606-90-5	436606-91-6
	436606-92-7	436606-93-8	436606-94-9	436606-95-0	436606-96-1
	436606-97-2	436606-98-3	436606-99-4	436607-00-0	436607-01-1
	436607-02-2	436607-03-3	436607-04-4	436607-05-5	436607-06-6
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	436607-12-4	436607-13-5	436607-14-6	436607-15-7	436607-16-8
	436607-17-9	436607-18-0	436607-19-1	436607-20-4	436607-21-5
	436607-22-6	436607-23-7	436607-24-8	436607-25-9	436607-26-0
	436607-27-1	436607-28-2	436607-29-3	436607-30-6	436607-31-7
	436607-32-8	436607-33-9	436607-34-0	436607-35-1	436607-36-2
	436607-37-3	436607-38-4	436607-39-5	436607-40-8	436607-41-9
	436607-42-0	436607-43-1	436607-44-2	436607-45-3	436607-46-4
	436607-47-5	436607-48-6	436607-49-7	436607-50-0	436607-51-1
	436607-52-2	436607-53-3	436607-54-4	436607-55-5	436607-56-6
	436607-57-7	436607-58-8	436607-59-9	436607-60-2	436607-61-3

436607-62-4	436607-63-5	436607-64-6	436607-65-7	436607-66-8
436607-67-9	436607-68-0	436607-69-1	436607-70-4	436607-71-5
436607-72-6	436607-73-7	436607-74-8	436607-75-9	436607-76-0
436607-77-1	436607-78-2	436607-79-3	436607-80-6	436607-81-7
436607-82-8	436607-83-9	436607-84-0	436607-85-1	436607-86-2
436607-87-3	436607-88-4	436607-89-5	436607-90-8	436607-91-9
436607-92-0	436607-93-1	436607-94-2	436607-95-3	436607-96-4
436607-97-5	436607-98-6	436607-99-7	436608-00-3	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT	436608-01-4	436608-02-5	436608-03-6	436608-04-7	436608-05-8
	436608-06-9	436608-07-0	436608-08-1	436608-09-2	436608-10-5
	436608-11-6	436608-12-7	436608-13-8	436608-14-9	436608-15-0
	436608-16-1	436608-17-2	436608-18-3	436608-19-4	436608-20-7
	436608-21-8	436608-22-9	436608-23-0	436608-24-1	436608-25-2
	436608-26-3	436608-27-4	436608-28-5	436608-29-6	436608-30-9
	436608-31-0	436608-32-1	436608-33-2	436608-34-3	436608-35-4
	436608-36-5	436608-37-6	436608-38-7	436608-39-8	436608-40-1
	436608-41-2	436608-42-3	436608-43-4	436608-44-5	436608-45-6
	436608-46-7	436608-47-8	436608-48-9	436608-49-0	436608-50-3
	436608-51-4	436608-52-5	436608-53-6	436608-54-7	436608-55-8
	436608-56-9	436608-57-0	436608-58-1	436608-59-2	436608-60-5
	436608-61-6	436608-62-7	436608-63-8	436608-64-9	436608-65-0
	436608-66-1	436608-67-2	436608-68-3	436608-69-4	436608-70-7
	436608-71-8	436608-72-9	436608-73-0	436608-74-1	436608-75-2
	436608-76-3	436608-77-4	436608-78-5	436608-79-6	436608-80-9
	436608-81-0	436608-82-1	436608-83-2	436608-84-3	436608-85-4
	436608-86-5	436608-87-6	436608-88-7	436608-89-8	436608-90-1
	436608-91-2	436608-92-3	436608-93-4	436608-94-5	436608-95-6
	436608-96-7	436608-97-8	436608-98-9	436608-99-0	436609-00-6
	436609-01-7	436609-02-8	436609-03-9	436609-04-0	436609-05-1
	436609-06-2	436609-07-3	436609-08-4	436609-09-5	436609-10-8
	436609-11-9	436609-12-0	436609-13-1	436609-14-2	436609-15-3
	436609-16-4	436609-17-5	436609-18-6	436609-19-7	436609-20-0
	436609-21-1	436609-22-2	436609-23-3	436609-24-4	436609-25-5
	436609-26-6	436609-27-7	436609-28-8	436609-29-9	436609-30-2
	436609-31-3	436609-32-4	436609-33-5	436609-34-6	436609-35-7
	436609-36-8	436609-37-9	436609-38-0	436609-39-1	436609-40-4
	436609-41-5	436609-42-6	436609-43-7	436609-44-8	436609-45-9
	436609-46-0	436609-47-1	436609-48-2	436609-49-3	436609-50-6
	436609-51-7	436609-52-8	436609-53-9	436609-54-0	436609-55-1
	436609-56-2	436609-57-3	436609-58-4	436609-59-5	436609-60-8
	436609-61-9	436609-62-0	436609-63-1	436609-64-2	436609-65-3
	436609-66-4	436609-67-5	436609-68-6	436609-69-7	436609-70-0
	436609-71-1	436609-72-2	436609-73-3	436609-74-4	436609-75-5
	436609-76-6	436609-77-7	436609-78-8	436609-79-9	436609-80-2
	436609-81-3	436609-82-4	436609-83-5	436609-84-6	436609-85-7
	436609-86-8	436609-87-9	436609-88-0	436609-89-1	436609-90-4
	436609-91-5	436609-92-6	436609-93-7	436609-94-8	436609-95-9
	436609-96-0	436609-97-1	436609-98-2	436609-99-3	436610-00-3
	436610-01-4	436610-02-5	436610-03-6	436610-04-7	436610-05-8
	436610-06-9	436610-07-0	436610-08-1	436610-09-2	436610-10-5
	436610-11-6	436610-12-7	436610-13-8	436610-14-9	436610-15-0
	436610-16-1	436610-17-2	436610-18-3	436610-19-4	436610-20-7
	436610-21-8	436610-22-9	436610-23-0	436610-24-1	436610-25-2
	436610-26-3	436610-27-4	436610-28-5	436610-29-6	436610-30-9
	436610-31-0	436610-32-1	436610-33-2	436610-34-3	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT	436610-35-4	436610-36-5	436610-37-6	436610-38-7	436610-39-8
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	436610-45-6	436610-46-7	436610-47-8	436610-48-9	436610-49-0
	436610-50-3	436610-51-4	436610-52-5	436610-53-6	436610-54-7
	436610-55-8	436610-56-9	436610-57-0	436610-58-1	436610-59-2
	436610-60-5	436610-61-6	436610-62-7	436610-63-8	436610-64-9
	436610-65-0	436610-66-1	436610-67-2	436610-68-3	436610-69-4
	436610-70-7	436610-71-8	436610-72-9	436610-73-0	436610-74-1
	436610-75-2	436610-76-3	436610-77-4	436610-78-5	436610-79-6
	436610-80-9	436610-81-0	436610-82-1	436610-83-2	436610-84-3
	436610-85-4	436610-86-5	436610-87-6	436610-88-7	436610-89-8
	436610-90-1	436610-91-2	436610-92-3	436610-93-4	436610-94-5
	436610-95-6	436610-96-7	436610-97-8	436610-98-9	436610-99-0
	436611-00-6	436611-01-7	436611-02-8	436611-03-9	436611-04-0
	436611-05-1	436611-06-2	436611-07-3	436611-08-4	436611-09-5
	436611-10-8	436611-11-9	436611-12-0	436611-13-1	436611-14-2
	436611-15-3	436611-16-4	436611-17-5	436611-18-6	436611-19-7
	436611-20-0	436611-21-1	436611-22-2	436611-23-3	436611-24-4
	436611-25-5	436611-26-6	436611-27-7	436611-28-8	436611-29-9
	436611-30-2	436611-31-3	436611-32-4	436611-33-5	436611-34-6
	436611-35-7	436611-36-8	436611-37-9	436611-38-0	436611-39-1
	436611-40-4	436611-41-5	436611-42-6	436611-43-7	436611-44-8
	436611-45-9	436611-46-0	436611-47-1	436611-48-2	436611-49-3
	436611-50-6	436611-51-7	436611-52-8	436611-53-9	436611-54-0
	436611-55-1	436611-56-2	436611-57-3	436611-58-4	436611-59-5
	436611-60-8	436611-61-9	436611-62-0	436611-63-1	436611-64-2
	436611-65-3	436611-66-4	436611-67-5	436611-68-6	436611-69-7
	436611-70-0	436611-71-1	436611-72-2	436611-73-3	436611-74-4
	436611-75-5	436611-76-6	436611-77-7	436611-78-8	436611-79-9
	436611-80-2	436611-81-3	436611-82-4	436611-83-5	436611-84-6
	436611-85-7	436611-86-8	436611-87-9	436611-88-0	436611-89-1
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	436612-00-9	436612-01-0	436612-02-1	436612-03-2	436612-04-3
	436612-05-4	436612-06-5	436612-07-6	436612-08-7	436612-09-8
	436612-10-1	436612-11-2	436612-12-3	436612-13-4	436612-14-5
	436612-15-6	436612-16-7	436612-17-8	436612-18-9	436612-19-0
	436612-20-3	436612-21-4	436612-22-5	436612-23-6	436612-24-7
	436612-25-8	436612-26-9	436612-27-0	436612-28-1	436612-29-2
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	436612-40-7	436612-41-8	436612-42-9	436612-43-0	436612-44-1
	436612-45-2	436612-46-3	436612-47-4	436612-48-5	436612-49-6
	436612-50-9	436612-51-0	436612-52-1	436612-53-2	436612-54-3
	436612-55-4	436612-56-5	436612-57-6	436612-58-7	436612-59-8
	436612-60-1	436612-61-2	436612-62-3	436612-63-4	436612-64-5
	436612-65-6	436612-66-7	436612-67-8	436612-68-9	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid probes useful for gene expression anal.)

IT	436612-69-0	436612-70-3	436612-71-4	436612-72-5	436612-73-6
	436612-74-7	436612-75-8	436612-76-9	436612-77-0	436612-78-1
	436612-79-2	436612-80-5	436612-81-6	436612-82-7	436612-83-8
	436612-84-9	436612-85-0	436612-86-1	436612-87-2	436612-88-3
	436612-89-4	436612-90-7	436612-91-8	436612-92-9	436612-93-0
	436612-94-1	436612-95-2	436612-96-3	436612-97-4	436612-98-5
	436612-99-6	436613-00-2	436613-01-3	436613-02-4	436613-03-5
	436613-04-6	436613-05-7	436613-06-8	436613-07-9	436613-08-0
	436613-09-1	436613-10-4	436613-11-5	436613-12-6	436613-13-7

436613-14-8	436613-15-9	436613-16-0	436613-17-1	436613-18-2
436613-19-3	436613-20-6	436613-21-7	436613-22-8	436613-23-9
436613-24-0	436613-25-1	436613-26-2	436613-27-3	436613-28-4
436613-29-5	436613-30-8	436613-31-9	436613-32-0	436613-33-1
436613-34-2	436613-35-3	436613-36-4	436613-37-5	436613-38-6
436613-39-7	436613-40-0	436613-41-1	436613-42-2	436613-43-3
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436613-54-6	436613-55-7	436613-56-8	436613-57-9	436613-58-0
436613-59-1	436613-60-4	436613-61-5	436613-62-6	436613-63-7
436613-64-8	436613-65-9	436613-66-0	436613-67-1	436613-68-2
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436613-79-5	436613-80-8	436613-81-9	436613-82-0	436613-83-1
436613-84-2	436613-85-3	436613-86-4	436613-87-5	436613-88-6
436613-89-7	436613-90-0	436613-91-1	436613-92-2	436613-93-3
436613-94-4	436613-95-5	436613-96-6	436613-97-7	436613-98-8
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436614-09-4	436614-10-7	436614-11-8	436614-12-9	436614-13-0
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436614-24-3	436614-25-4	436614-26-5	436614-27-6	436614-28-7
436614-29-8	436614-30-1	436614-31-2	436614-32-3	436614-33-4
436614-34-5	436614-35-6	436614-36-7	436614-37-8	436614-38-9
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436614-49-2	436614-50-5	436614-51-6	436614-52-7	436614-53-8
436614-54-9	436614-55-0	436614-56-1	436614-57-2	436614-58-3
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436614-64-1	436614-65-2	436614-66-3	436614-67-4	436614-68-5
436614-69-6	436614-70-9	436614-71-0	436614-72-1	436614-73-2
436614-74-3	436614-75-4	436614-76-5	436614-77-6	436614-78-7
436614-79-8	436614-80-1	436614-81-2	436614-82-3	436614-83-4
436614-84-5	436614-85-6	436614-86-7	436614-87-8	436614-88-9
436614-89-0	436614-90-3	436614-91-4	436614-92-5	436614-93-6
436614-94-7	436614-95-8	436614-96-9	436614-97-0	436614-98-1
436614-99-2	436615-00-8	436615-01-9	436615-02-0	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT	436615-03-1	436615-04-2	436615-05-3	436615-06-4	436615-07-5
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	436615-23-5	436615-24-6	436615-25-7	436615-26-8	436615-27-9
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	436615-33-7	436615-34-8	436615-35-9	436615-36-0	436615-37-1
	436615-38-2	436615-39-3	436615-40-6	436615-41-7	436615-42-8
	436615-43-9	436615-44-0	436615-45-1	436615-46-2	436615-47-3
	436615-48-4	436615-49-5	436615-50-8	436615-51-9	436615-52-0
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	436615-58-6	436615-59-7	436615-60-0	436615-61-1	436615-62-2
	436615-63-3	436615-64-4	436615-65-5	436615-66-6	436615-67-7
	436615-68-8	436615-69-9	436615-70-2	436615-71-3	436615-72-4
	436615-73-5	436615-74-6	436615-75-7	436615-76-8	436615-77-9
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	436615-83-7	436615-84-8	436615-85-9	436615-86-0	436615-87-1
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	436615-93-9	436615-94-0	436615-95-1	436615-96-2	436615-97-3
	436615-98-4	436615-99-5	436616-00-1	436616-01-2	436616-02-3

436616-03-4	436616-04-5	436616-05-6	436616-06-7	436616-07-8
436616-08-9	436616-09-0	436616-10-3	436616-11-4	436616-12-5
436616-13-6	436616-14-7	436616-15-8	436616-16-9	436616-17-0
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436616-23-8	436616-24-9	436616-25-0	436616-26-1	436616-27-2
436616-28-3	436616-29-4	436616-30-7	436616-31-8	436616-32-9
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436616-43-2	436616-44-3	436616-45-4	436616-46-5	436616-47-6
436616-48-7	436616-49-8	436616-50-1	436616-51-2	436616-52-3
436616-53-4	436616-54-5	436616-55-6	436616-56-7	436616-57-8
436616-58-9	436616-59-0	436616-60-3	436616-61-4	436616-62-5
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436616-68-1	436616-69-2	436616-70-5	436616-71-6	436616-72-7
436616-73-8	436616-74-9	436616-75-0	436616-76-1	436616-77-2
436616-78-3	436616-79-4	436616-80-7	436616-81-8	436616-82-9
436616-83-0	436616-84-1	436616-85-2	436616-86-3	436616-87-4
436616-88-5	436616-89-6	436616-90-9	436616-91-0	436616-92-1
436616-93-2	436616-94-3	436616-95-4	436616-96-5	436616-97-6
436616-98-7	436616-99-8	436617-00-4	436617-01-5	436617-02-6
436617-03-7	436617-04-8	436617-05-9	436617-06-0	436617-07-1
436617-08-2	436617-09-3	436617-10-6	436617-11-7	436617-12-8
436617-13-9	436617-14-0	436617-15-1	436617-16-2	436617-17-3
436617-18-4	436617-19-5	436617-20-8	436617-21-9	436617-22-0
436617-23-1	436617-24-2	436617-25-3	436617-26-4	436617-27-5
436617-28-6	436617-29-7	436617-30-0	436617-31-1	436617-32-2
436617-33-3	436617-34-4	436617-35-5	436617-36-6	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

IT	436617-37-7	436617-38-8	436617-39-9	436617-40-2	436617-41-3
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	436617-47-9	436617-48-0	436617-49-1	436617-50-4	436617-51-5
	436617-52-6	436617-53-7	436617-54-8	436617-55-9	436617-56-0
	436617-57-1	436617-58-2	436617-59-3	436617-60-6	436617-61-7
	436617-62-8	436617-63-9	436617-64-0	436617-65-1	436617-66-2
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	436617-87-7	436617-88-8	436617-89-9	436617-90-2	436617-91-3
	436617-92-4	436617-93-5	436617-94-6	436617-95-7	436617-96-8
	436617-97-9	436617-98-0	436617-99-1	436618-00-7	436618-01-8
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	436618-07-4	436618-08-5	436618-09-6	436618-10-9	436618-11-0
	436618-12-1	436618-13-2	436618-14-3	436618-15-4	436618-16-5
	436618-17-6	436618-18-7	436618-19-8	436618-20-1	436618-21-2
	436618-22-3	436618-23-4	436618-24-5	436618-25-6	436618-26-7
	436618-27-8	436618-28-9	436618-29-0	436618-30-3	436618-31-4
	436618-32-5	436618-33-6	436618-34-7	436618-35-8	436618-36-9
	436618-37-0	436618-38-1	436618-39-2	436618-40-5	436618-41-6
	436618-42-7	436618-43-8	436618-44-9	436618-45-0	436618-46-1
	436618-47-2	436618-48-3	436618-49-4	436618-50-7	436618-51-8
	436618-52-9	436618-53-0	436618-54-1	436618-55-2	436618-56-3
	436618-57-4	436618-58-5	436618-59-6	436618-60-9	436618-61-0
	436618-62-1	436618-63-2	436618-64-3	436618-65-4	436618-66-5
	436618-67-6	436618-68-7	436618-69-8	436618-70-1	436618-71-2
	436618-72-3	436618-73-4	436618-74-5	436618-75-6	436618-76-7
	436618-77-8	436618-78-9	436618-79-0	436618-80-3	436618-81-4
	436618-82-5	436618-83-6	436618-84-7	436618-85-8	436618-86-9
	436618-87-0	436618-88-1	436618-89-2	436618-90-5	436618-91-6

436618-92-7	436618-93-8	436618-94-9	436618-95-0	436618-96-1
436618-97-2	436618-98-3	436618-99-4	436619-00-0	436619-01-1
436619-02-2	436619-03-3	436619-04-4	436619-05-5	436619-06-6
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436619-12-4	436619-13-5	436619-14-6	436619-15-7	436619-16-8
436619-17-9	436619-18-0	436619-19-1	436619-20-4	436619-21-5
436619-22-6	436619-23-7	436619-24-8	436619-25-9	436619-26-0
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436619-32-8	436619-33-9	436619-34-0	436619-35-1	436619-36-2
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436619-42-0	436619-43-1	436619-44-2	436619-45-3	436619-46-4
436619-47-5	436619-48-6	436619-49-7	436619-50-0	436619-51-1
436619-52-2	436619-53-3	436619-54-4	436619-55-5	436619-56-6
436619-57-7	436619-58-8	436619-59-9	436619-60-2	436619-61-3
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436619-67-9	436619-68-0	436619-69-1	436619-70-4	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT	436619-71-5	436619-72-6	436619-73-7	436619-74-8	436619-75-9
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	436619-81-7	436619-82-8	436619-83-9	436619-84-0	436619-85-1
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	436619-96-4	436619-97-5	436619-98-6	436619-99-7	436620-00-7
	436620-01-8	436620-02-9	436620-03-0	436620-04-1	436620-05-2
	436620-06-3	436620-07-4	436620-08-5	436620-09-6	436620-10-9
	436620-11-0	436620-12-1	436620-13-2	436620-14-3	436620-15-4
	436620-16-5	436620-17-6	436620-18-7	436620-19-8	436620-20-1
	436620-21-2	436620-22-3	436620-23-4	436620-24-5	436620-25-6
	436620-26-7	436620-27-8	436620-28-9	436620-29-0	436620-30-3
	436620-31-4	436620-32-5	436620-33-6	436620-34-7	436620-35-8
	436620-36-9	436620-37-0	436620-38-1	436620-39-2	436620-40-5
	436620-41-6	436620-42-7	436620-43-8	436620-44-9	436620-45-0
	436620-46-1	436620-47-2	436620-48-3	436620-49-4	436620-50-7
	436620-51-8	436620-52-9	436620-53-0	436620-54-1	436620-55-2
	436620-56-3	436620-57-4	436620-58-5	436620-59-6	436620-60-9
	436620-61-0	436620-62-1	436620-63-2	436620-64-3	436620-65-4
	436620-66-5	436620-67-6	436620-68-7	436620-69-8	436620-70-1
	436620-71-2	436620-72-3	436620-73-4	436620-74-5	436620-75-6
	436620-76-7	436620-77-8	436620-78-9	436620-79-0	436620-80-3
	436620-81-4	436620-82-5	436620-83-6	436620-84-7	436620-85-8
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	436620-91-6	436620-92-7	436620-93-8	436620-94-9	436620-95-0
	436620-96-1	436620-97-2	436620-98-3	436620-99-4	436621-00-0
	436621-01-1	436621-02-2	436621-03-3	436621-04-4	436621-05-5
	436621-06-6	436621-07-7	436621-08-8	436621-09-9	436621-10-2
	436621-11-3	436621-12-4	436621-13-5	436621-14-6	436621-15-7
	436621-16-8	436621-17-9	436621-18-0	436621-19-1	436621-20-4
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	436621-31-7	436621-32-8	436621-33-9	436621-34-0	436621-35-1
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	436621-41-9	436621-42-0	436621-43-1	436621-44-2	436621-45-3
	436621-46-4	436621-47-5	436621-48-6	436621-49-7	436621-50-0
	436621-51-1	436621-52-2	436621-53-3	436621-54-4	436621-55-5
	436621-56-6	436621-57-7	436621-58-8	436621-59-9	436621-60-2
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	436621-76-0	436621-77-1	436621-78-2	436621-79-3	436621-80-6

436621-81-7	436621-82-8	436621-83-9	436621-84-0	436621-85-1
436621-86-2	436621-87-3	436621-88-4	436621-89-5	436621-90-8
436621-91-9	436621-92-0	436621-93-1	436621-94-2	436621-95-3
436621-96-4	436621-97-5	436621-98-6	436621-99-7	436622-00-3
436622-01-4	436622-02-5	436622-03-6	436622-04-7	

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

IT	436622-05-8	436622-06-9	436622-07-0	436622-08-1	436622-09-2
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	436622-15-0	436622-16-1	436622-17-2	436622-18-3	436622-19-4
	436622-20-7	436622-21-8	436622-22-9	436622-23-0	436622-24-1
	436622-25-2	436622-26-3	436622-27-4	436622-28-5	436622-29-6
	436622-30-9	436622-31-0	436622-32-1	436622-33-2	436622-34-3
	436622-35-4	436622-36-5	436622-37-6	436622-38-7	436622-39-8
	436622-40-1	436622-41-2	436622-42-3	436622-43-4	436622-44-5
	436622-45-6	436622-46-7	436622-47-8	436622-48-9	436622-49-0
	436622-50-3	436622-51-4	436622-52-5	436622-53-6	436622-54-7
	436622-55-8	436622-56-9	436622-57-0	436622-58-1	436622-59-2
	436622-60-5	436622-61-6	436622-62-7	436622-63-8	436622-64-9
	436622-65-0	436622-66-1	436622-67-2	436622-68-3	436622-69-4
	436622-70-7	436622-71-8	436622-72-9	436622-73-0	436622-74-1
	436622-75-2	436622-76-3	436622-77-4	436622-78-5	436622-79-6
	436622-80-9	436622-81-0	436622-82-1	436622-83-2	436622-84-3
	436622-85-4	436622-86-5	436622-87-6	436622-88-7	436622-89-8
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	436622-95-6	436622-96-7	436622-97-8	436622-98-9	436622-99-0
	436623-00-6	436623-01-7	436623-02-8	436623-03-9	436623-04-0
	436623-05-1	436623-06-2	436623-07-3	436623-08-4	436623-09-5
	436623-10-8	436623-11-9	436623-12-0	436623-13-1	436623-14-2
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	436623-25-5	436623-26-6	436623-27-7	436623-28-8	436623-29-9
	436623-30-2	436623-31-3	436623-32-4	436623-33-5	436623-34-6
	436623-35-7	436623-36-8	436623-37-9	436623-38-0	436623-39-1
	436623-40-4	436623-41-5	436623-42-6	436623-43-7	436623-44-8
	436623-45-9	436623-46-0	436623-47-1	436623-48-2	436623-49-3
	436623-50-6	436623-51-7	436623-52-8	436623-53-9	436623-54-0
	436623-55-1	436623-56-2	436623-57-3	436623-58-4	436623-59-5
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RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

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RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

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	436626-93-6	436626-94-7	436626-95-8	436626-96-9	436626-97-0
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RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

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RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

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RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
probes useful for gene expression anal.)

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 RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
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 study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

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RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
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(nucleotide sequence; human genome derived single exon nucleic acid
 probes useful for gene expression anal.)

L25 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:172134 HCAPLUS

DN 136:227884

TI Determining the degree of methylation of defined cytosines in genomic DNA
 in the sequence context 5'-CpG-3' by bisulfite modification

IN Olek, Alexander; Piepenbrock, Christian; Berlin, Kurt; Guetig, David

PA Epigenomics Ag, Germany

SO PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM C12Q001-68

CC 3-1 (Biochemical Genetics)

Section cross-reference(s): 9

FAN.CNT 68

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1274865	A2	20030115	EP 2001-953936	20010406 <--
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 PRAI DE 2000-10043826 A 20000901
 DE 2000-10044543 A 20000905
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 WO 2001-EP3969 W 20010406
 WO 2001-EP10074 W 20010901
 AB The invention relates to a method for detecting the degree of methylation
 of a defined cytosine in the sequence context 5'-CpG-3' of a genomic DNA
 sample. The first stage involves treating the genomic DNA with bisulfite
 and subsequent alk. hydrolysis in such a way that the cytosine bases,
 but not the 5-methylcytosine bases, are converted into uracil, which
 corresponds to thymidine in its base pairing behavior. Parts of the
 genomic DNA contg. the defined cytosine are then amplified. The amplified
 parts are given a detectable mark and the extent of the hybridization of
 the amplified parts on the two classes of oligonucleotides is then detd.
 by detecting the mark of the amplified parts. The degree of methylation
 of the defined cytosine in the genomic DNA sample can be deduced on the
 basis of the relationship between the marks detected on the two classes of
 oligonucleotides following the hybridization. The oligomer probes
 according to the present invention, contg. at least one CpG dinucleotide,
 constitute important and effective tools which make it possible to
 ascertain the genetic and epigenetic parameters of genes assocd. with
 diseases. The invention is exemplified by methylation anal. of human
 genes ELK1 and MLH1. [This abstr. record is one of ten records for this
 document necessitated by the large no. of index entries required to fully
 index the document and publication system constraints.]
 ST cytosine methylation detection bisulfite DNA modification; genetic disease
 diagnosis bisulfite DNA hybridization probe; polymorphism detection gene
 cytosine methylation bisulfite probe
 IT Gene, animal
 RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST
 (Analytical study); BIOL (Biological study); USES (Uses)
 (ELK1; detg. the degree of methylation of defined cytosines in genomic
 DNA in the sequence context 5'-CpG-3' by bisulfite modification)
 IT Gene, animal
 RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST
 (Analytical study); BIOL (Biological study); USES (Uses)
 (MLH1; detg. the degree of methylation of defined cytosines in genomic
 DNA in the sequence context 5'-CpG-3' by bisulfite modification)
 IT Animal cell line
 Cell differentiation
 (cell type differences detection in; detg. the degree of methylation of
 defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by
 bisulfite modification)

- IT Nervous system
(central, disease; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)
- IT Mental disorder
(dementia; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)
- IT Luminescence, chemiluminescence
Polarized fluorescence
UV and visible spectroscopy
(detection by; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)
- IT Blood analysis
Bone, disease
Brain
Brain, disease
Cerebrospinal fluid
DNA microarray technology
Disease, animal
Eye
Feces
Fluorescent indicators
Heart
Human
Intestine
Isotope indicators
Kidney
Liver
Lung
Mammary gland
Mass spectrometry
Mental disorder
Muscle, disease
Neoplasm
Nucleic acid hybridization
PCR (polymerase chain reaction)
Prostate gland
Skin, disease
Sputum
Therapy
Urine analysis
(detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)
- IT DNA
Gene, animal
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)
- IT **Peptide nucleic acids**
Primers (nucleic acid)
Probes (nucleic acid)
RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)
- IT Glass, biological studies
RL: BUU (Biological use, unclassified); DEV (Device component use); BIOL (Biological study); USES (Uses)
(detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT Test kits
(diagnosis; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT Cardiovascular system
Digestive tract
Endocrine system
Respiratory tract
(disease; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT Behavior
Immunity
Metabolism, animal
Sexual behavior
(disorder; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT Diagnosis
(genetic; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT DNA
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(methylation; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT DNA sequences
(of chem. modified genes; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT Immobilization, molecular
(of oligonucleotides to solid phase; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT Animal tissue
(paraffin-embedded; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT Mental disorder
(psychosis; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT Genetic polymorphism
(single nucleotide; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT 4251-20-1 4624-07-1
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT 554-01-8, 5-Methylcytosine
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT 15181-46-1, Bisulfite 23134-05-6, Disulfite
RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT 7429-90-5, Aluminum, biological studies 7439-89-6, Iron, biological studies 7440-02-0, Nickel, biological studies 7440-21-3, Silicon, biological studies 7440-22-4, Silver, biological studies 7440-50-8, Copper, biological studies 7440-57-5, Gold, biological studies 9003-53-6, Polystyrene 12597-69-2, Steel, biological studies
RL: BUU (Biological use, unclassified); DEV (Device component use); BIOL (Biological study); USES (Uses)
(detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT 9012-90-2, DNA polymerase
RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(heat-resistant; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT 15178-66-2, d(CpG)
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(methylation; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT 71-30-7, Cytosine
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(methylation; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT 403002-84-6D, bisulfite-modified 403002-85-7D, bisulfite-modified
403002-86-8D, bisulfite-modified 403002-87-9D, bisulfite-modified
403002-88-0D, bisulfite-modified 403002-89-1D, bisulfite-modified
403002-90-4D, bisulfite-modified 403002-91-5D, bisulfite-modified
403002-92-6D, bisulfite-modified 403002-93-7D, bisulfite-modified
403002-94-8D, bisulfite-modified 403002-95-9D, bisulfite-modified
403002-96-0D, bisulfite-modified 403002-97-1D, bisulfite-modified
403002-98-2D, bisulfite-modified 403002-99-3D, bisulfite-modified
403003-00-9D, bisulfite-modified 403003-01-0D, bisulfite-modified
403003-02-1D, bisulfite-modified 403003-03-2D, bisulfite-modified
403003-04-3D, bisulfite-modified 403003-05-4D, bisulfite-modified
403003-06-5D, bisulfite-modified 403003-07-6D, bisulfite-modified
403003-08-7D, bisulfite-modified 403003-09-8D, bisulfite-modified
403003-10-1D, bisulfite-modified 403003-11-2D, bisulfite-modified
403003-12-3D, bisulfite-modified 403003-13-4D, bisulfite-modified
403003-14-5D, bisulfite-modified 403003-15-6D, bisulfite-modified
403003-16-7D, bisulfite-modified 403003-17-8D, bisulfite-modified
403003-18-9D, bisulfite-modified 403003-19-0D, bisulfite-modified
403003-20-3D, bisulfite-modified 403003-21-4D, bisulfite-modified
403003-22-5D, bisulfite-modified 403003-23-6D, bisulfite-modified
403003-24-7D, bisulfite-modified 403003-25-8D, bisulfite-modified
403003-26-9D, bisulfite-modified 403003-27-0D, bisulfite-modified
403003-28-1D, bisulfite-modified 403003-29-2D, bisulfite-modified
403003-30-5D, bisulfite-modified 403003-31-6D, bisulfite-modified
403003-32-7D, bisulfite-modified 403003-33-8D, bisulfite-modified
403003-34-9D, bisulfite-modified 403003-35-0D, bisulfite-modified
403003-36-1D, bisulfite-modified 403003-37-2D, bisulfite-modified
403003-38-3D, bisulfite-modified 403003-39-4D, bisulfite-modified
403003-40-7D, bisulfite-modified 403003-41-8D, bisulfite-modified
403003-42-9D, bisulfite-modified 403003-43-0D, bisulfite-modified
403003-44-1D, bisulfite-modified 403003-45-2D, bisulfite-modified
403003-46-3D, bisulfite-modified 403003-47-4D, bisulfite-modified
403003-48-5D, bisulfite-modified 403003-49-6D, bisulfite-modified
403003-50-9D, bisulfite-modified 403003-51-0D, bisulfite-modified
403003-52-1D, bisulfite-modified 403003-53-2D, bisulfite-modified
403003-54-3D, bisulfite-modified 403003-55-4D, bisulfite-modified

[illegible]

403004-82-0D, bisulfite-modified 403004-83-1D, bisulfite-modified
403004-84-2D, bisulfite-modified 403004-85-3D, bisulfite-modified
403004-86-4D, bisulfite-modified 403004-87-5D, bisulfite-modified
403004-88-6D, bisulfite-modified 403004-89-7D, bisulfite-modified
403004-90-0D, bisulfite-modified 403004-91-1D, bisulfite-modified
403004-92-2D, bisulfite-modified 403004-93-3D, bisulfite-modified
403004-94-4D, bisulfite-modified 403004-95-5D, bisulfite-modified
403004-96-6D, bisulfite-modified 403004-97-7D, bisulfite-modified
403004-98-8D, bisulfite-modified 403004-99-9D, bisulfite-modified
403005-00-5D, bisulfite-modified 403005-01-6D, bisulfite-modified
403005-02-7D, bisulfite-modified 403005-03-8D, bisulfite-modified
403005-04-9D, bisulfite-modified 403005-05-0D, bisulfite-modified
403005-06-1D, bisulfite-modified 403005-07-2D, bisulfite-modified
403005-08-3D, bisulfite-modified 403005-09-4D, bisulfite-modified
403005-10-7D, bisulfite-modified 403005-11-8D, bisulfite-modified
403005-12-9D, bisulfite-modified 403005-13-0D, bisulfite-modified
403005-14-1D, bisulfite-modified 403005-15-2D, bisulfite-modified
403005-16-3D, bisulfite-modified 403005-17-4D, bisulfite-modified
RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic
use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);
USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined
cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite
modification)

IT 403005-18-5D, bisulfite-modified 403005-19-6D, bisulfite-modified
403005-20-9D, bisulfite-modified 403005-21-0D, bisulfite-modified
403005-22-1D, bisulfite-modified 403005-23-2D, bisulfite-modified
403005-24-3D, bisulfite-modified 403005-25-4D, bisulfite-modified
403005-26-5D, bisulfite-modified 403005-27-6D, bisulfite-modified
403005-28-7D, bisulfite-modified 403005-29-8D, bisulfite-modified
403005-30-1D, bisulfite-modified 403005-31-2D, bisulfite-modified
403005-32-3D, bisulfite-modified 403005-33-4D, bisulfite-modified
403005-34-5D, bisulfite-modified 403005-35-6D, bisulfite-modified
403005-36-7D, bisulfite-modified 403005-37-8D, bisulfite-modified
403005-38-9D, bisulfite-modified 403005-39-0D, bisulfite-modified
403005-40-3D, bisulfite-modified 403005-41-4D, bisulfite-modified
403005-42-5D, bisulfite-modified 403005-43-6D, bisulfite-modified
403005-44-7D, bisulfite-modified 403005-45-8D, bisulfite-modified
403005-46-9D, bisulfite-modified 403005-47-0D, bisulfite-modified
403005-48-1D, bisulfite-modified 403005-49-2D, bisulfite-modified
403005-50-5D, bisulfite-modified 403005-51-6D, bisulfite-modified
403005-52-7D, bisulfite-modified 403005-53-8D, bisulfite-modified
403005-54-9D, bisulfite-modified 403005-55-0D, bisulfite-modified
403005-56-1D, bisulfite-modified 403005-57-2D, bisulfite-modified
403005-58-3D, bisulfite-modified 403005-59-4D, bisulfite-modified
403005-60-7D, bisulfite-modified 403005-61-8D, bisulfite-modified
403005-62-9D, bisulfite-modified 403005-63-0D, bisulfite-modified
403005-64-1D, bisulfite-modified 403005-65-2D, bisulfite-modified
403005-66-3D, bisulfite-modified 403005-67-4D, bisulfite-modified
403005-68-5D, bisulfite-modified 403005-69-6D, bisulfite-modified
403005-70-9D, bisulfite-modified 403005-71-0D, bisulfite-modified
403005-72-1D, bisulfite-modified 403005-73-2D, bisulfite-modified
403005-74-3D, bisulfite-modified 403005-75-4D, bisulfite-modified
403005-76-5D, bisulfite-modified 403005-77-6D, bisulfite-modified
403005-78-7D, bisulfite-modified 403005-79-8D, bisulfite-modified
403005-80-1D, bisulfite-modified 403005-81-2D, bisulfite-modified
403005-82-3D, bisulfite-modified 403005-83-4D, bisulfite-modified
403005-84-5D, bisulfite-modified 403005-85-6D, bisulfite-modified
403005-86-7D, bisulfite-modified 403005-87-8D, bisulfite-modified
403005-88-9D, bisulfite-modified 403005-89-0D, bisulfite-modified
403005-90-3D, bisulfite-modified 403005-91-4D, bisulfite-modified
403005-92-5D, bisulfite-modified 403005-93-6D, bisulfite-modified
403005-94-7D, bisulfite-modified 403005-95-8D, bisulfite-modified

[illegible]

403007-22-7D, bisulfite-modified 403007-23-8D, bisulfite-modified
403007-24-9D, bisulfite-modified 403007-25-0D, bisulfite-modified
403007-26-1D, bisulfite-modified 403007-27-2D, bisulfite-modified
403007-28-3D, bisulfite-modified 403007-29-4D, bisulfite-modified
403007-30-7D, bisulfite-modified 403007-31-8D, bisulfite-modified
403007-32-9D, bisulfite-modified 403007-33-0D, bisulfite-modified
403007-34-1D, bisulfite-modified 403007-35-2D, bisulfite-modified
403007-36-3D, bisulfite-modified 403007-37-4D, bisulfite-modified
403007-38-5D, bisulfite-modified 403007-39-6D, bisulfite-modified
403007-40-9D, bisulfite-modified 403007-41-0D, bisulfite-modified
403007-42-1D, bisulfite-modified 403007-43-2D, bisulfite-modified
403007-44-3D, bisulfite-modified 403007-45-4D, bisulfite-modified
403007-46-5D, bisulfite-modified 403007-47-6D, bisulfite-modified
403007-48-7D, bisulfite-modified 403007-49-8D, bisulfite-modified
403007-50-1D, bisulfite-modified 403007-51-2D, bisulfite-modified
RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic
use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);
USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined
cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite
modification)

IT 403007-52-3D, bisulfite-modified 403007-53-4D, bisulfite-modified
403007-54-5D, bisulfite-modified 403007-55-6D, bisulfite-modified
403007-56-7D, bisulfite-modified 403007-57-8D, bisulfite-modified
403007-58-9D, bisulfite-modified 403007-59-0D, bisulfite-modified
403007-60-3D, bisulfite-modified 403007-61-4D, bisulfite-modified
403007-62-5D, bisulfite-modified 403007-63-6D, bisulfite-modified
403007-64-7D, bisulfite-modified 403007-65-8D, bisulfite-modified
403007-66-9D, bisulfite-modified 403007-67-0D, bisulfite-modified
403007-68-1D, bisulfite-modified 403007-69-2D, bisulfite-modified
403007-70-5D, bisulfite-modified 403007-71-6D, bisulfite-modified
403007-72-7D, bisulfite-modified 403007-73-8D, bisulfite-modified
403007-74-9D, bisulfite-modified 403007-75-0D, bisulfite-modified
403007-76-1D, bisulfite-modified 403007-77-2D, bisulfite-modified
403007-78-3D, bisulfite-modified 403007-79-4D, bisulfite-modified
403007-80-7D, bisulfite-modified 403007-81-8D, bisulfite-modified
403007-82-9D, bisulfite-modified 403007-83-0D, bisulfite-modified
403007-84-1D, bisulfite-modified 403007-85-2D, bisulfite-modified
403007-86-3D, bisulfite-modified 403007-87-4D, bisulfite-modified
403007-88-5D, bisulfite-modified 403007-89-6D, bisulfite-modified
403007-90-9D, bisulfite-modified 403007-91-0D, bisulfite-modified
403007-92-1D, bisulfite-modified 403007-93-2D, bisulfite-modified
403007-94-3D, bisulfite-modified 403007-95-4D, bisulfite-modified
403007-96-5D, bisulfite-modified 403007-97-6D, bisulfite-modified
403007-98-7D, bisulfite-modified 403007-99-8D, bisulfite-modified
403008-00-4D, bisulfite-modified 403008-01-5D, bisulfite-modified
403008-02-6D, bisulfite-modified 403008-03-7D, bisulfite-modified
403008-04-8D, bisulfite-modified 403008-05-9D, bisulfite-modified
403008-06-0D, bisulfite-modified 403008-07-1D, bisulfite-modified
403008-08-2D, bisulfite-modified 403008-09-3D, bisulfite-modified
403008-10-6D, bisulfite-modified 403008-11-7D, bisulfite-modified
403008-12-8D, bisulfite-modified 403008-13-9D, bisulfite-modified
403008-14-0D, bisulfite-modified 403008-15-1D, bisulfite-modified
403008-16-2D, bisulfite-modified 403008-17-3D, bisulfite-modified
403008-18-4D, bisulfite-modified 403008-19-5D, bisulfite-modified
403008-20-8D, bisulfite-modified 403008-21-9D, bisulfite-modified
403008-22-0D, bisulfite-modified 403008-23-1D, bisulfite-modified
403008-24-2D, bisulfite-modified 403008-25-3D, bisulfite-modified
403008-26-4D, bisulfite-modified 403008-27-5D, bisulfite-modified
403008-28-6D, bisulfite-modified 403008-29-7D, bisulfite-modified
403008-30-0D, bisulfite-modified 403008-31-1D, bisulfite-modified
403008-32-2D, bisulfite-modified 403008-33-3D, bisulfite-modified
403008-34-4D, bisulfite-modified 403008-35-5D, bisulfite-modified

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bisulfite-modified	403009-62-1D,	bisulfite-modified	403009-63-2D,
bisulfite-modified	403009-64-3D,	bisulfite-modified	403009-65-4D,
bisulfite-modified	403009-66-5D,	bisulfite-modified	403009-67-6D,
bisulfite-modified	403009-68-7D,	bisulfite-modified	403009-69-8D,
bisulfite-modified	403009-70-1D,	bisulfite-modified	403009-71-2D,
bisulfite-modified	403009-72-3D,	bisulfite-modified	403009-73-4D,
bisulfite-modified	403009-74-5D,	bisulfite-modified	403009-75-6D,
bisulfite-modified	403009-76-7D,	bisulfite-modified	403009-77-8D,
bisulfite-modified	403009-78-9D,	bisulfite-modified	403009-79-0D,
bisulfite-modified	403009-80-3D,	bisulfite-modified	403009-81-4D,
bisulfite-modified	403009-82-5D,	bisulfite-modified	403009-83-6D,
bisulfite-modified	403009-84-7D,	bisulfite-modified	403009-85-8D,
bisulfite-modified			

RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT	403009-86-9D,	bisulfite-modified	403009-87-0D,	bisulfite-modified
	403009-88-1D,	bisulfite-modified	403009-89-2D,	bisulfite-modified
	403009-90-5D,	bisulfite-modified	403009-91-6D,	bisulfite-modified
	403009-92-7D,	bisulfite-modified	403009-93-8D,	bisulfite-modified
	403009-94-9D,	bisulfite-modified	403009-95-0D,	bisulfite-modified
	403009-96-1D,	bisulfite-modified	403009-97-2D,	bisulfite-modified
	403009-98-3D,	bisulfite-modified	403009-99-4D,	bisulfite-modified
	403010-00-4D,	bisulfite-modified	403010-01-5D,	bisulfite-modified
	403010-02-6D,	bisulfite-modified	403010-03-7D,	bisulfite-modified
	403010-04-8D,	bisulfite-modified	403010-05-9D,	bisulfite-modified
	403010-06-0D,	bisulfite-modified	403010-07-1D,	bisulfite-modified
	403010-08-2D,	bisulfite-modified	403010-09-3D,	bisulfite-modified
	403010-10-6D,	bisulfite-modified	403010-11-7D,	bisulfite-modified
	403010-12-8D,	bisulfite-modified	403010-13-9D,	bisulfite-modified
	403010-14-0D,	bisulfite-modified	403010-15-1D,	bisulfite-modified
	403010-16-2D,	bisulfite-modified	403010-17-3D,	bisulfite-modified
	403010-18-4D,	bisulfite-modified	403010-19-5D,	bisulfite-modified
	403010-20-8D,	bisulfite-modified	403010-21-9D,	bisulfite-modified
	403010-22-0D,	bisulfite-modified	403010-23-1D,	bisulfite-modified
	403010-24-2D,	bisulfite-modified	403010-25-3D,	bisulfite-modified
	403010-26-4D,	bisulfite-modified	403010-27-5D,	bisulfite-modified
	403010-28-6D,	bisulfite-modified	403010-29-7D,	bisulfite-modified
	403010-30-0D,	bisulfite-modified	403010-31-1D,	bisulfite-modified
	403010-32-2D,	bisulfite-modified	403010-33-3D,	bisulfite-modified
	403010-34-4D,	bisulfite-modified	403010-35-5D,	bisulfite-modified
	403010-36-6D,	bisulfite-modified	403010-37-7D,	bisulfite-modified
	403010-38-8D,	bisulfite-modified	403010-39-9D,	bisulfite-modified
	403010-40-2D,	bisulfite-modified	403010-41-3D,	bisulfite-modified
	403010-42-4D,	bisulfite-modified	403010-43-5D,	bisulfite-modified
	403010-44-6D,	bisulfite-modified	403010-45-7D,	bisulfite-modified
	403010-46-8D,	bisulfite-modified	403010-47-9D,	bisulfite-modified
	403010-48-0D,	bisulfite-modified	403010-49-1D,	bisulfite-modified
	403010-50-4D,	bisulfite-modified	403010-51-5D,	bisulfite-modified
	403010-52-6D,	bisulfite-modified	403010-53-7D,	bisulfite-modified
	403010-54-8D,	bisulfite-modified	403010-55-9D,	bisulfite-modified
	403010-56-0D,	bisulfite-modified	403010-57-1D,	bisulfite-modified
	403010-58-2D,	bisulfite-modified	403010-59-3D,	bisulfite-modified
	403010-60-6D,	bisulfite-modified	403010-61-7D,	bisulfite-modified
	403010-62-8D,	bisulfite-modified	403010-63-9D,	bisulfite-modified
	403010-64-0D,	bisulfite-modified	403010-65-1D,	bisulfite-modified
	403010-66-2D,	bisulfite-modified	403010-67-3D,	bisulfite-modified
	403010-68-4D,	bisulfite-modified	403010-69-5D,	bisulfite-modified
	403010-70-8D,	bisulfite-modified	403010-71-9D,	bisulfite-modified
	403010-72-0D,	bisulfite-modified	403010-73-1D,	bisulfite-modified

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403012-00-0D, bisulfite-modified 403012-01-1D, bisulfite-modified
403012-02-2D, bisulfite-modified 403012-03-3D, bisulfite-modified
403012-04-4D, bisulfite-modified 403012-05-5D, bisulfite-modified
403012-06-6D, bisulfite-modified 403012-07-7D, bisulfite-modified
403012-08-8D, bisulfite-modified 403012-09-9D, bisulfite-modified
403012-10-2D, bisulfite-modified 403012-11-3D, bisulfite-modified
403012-12-4D, bisulfite-modified 403012-13-5D, bisulfite-modified
403012-14-6D, bisulfite-modified 403012-15-7D, bisulfite-modified
403012-16-8D, bisulfite-modified 403012-17-9D, bisulfite-modified
403012-18-0D, bisulfite-modified 403012-19-1D, bisulfite-modified
RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic
use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);
USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined
cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite
modification)

IT 403012-20-4D, bisulfite-modified 403012-21-5D, bisulfite-modified
403012-22-6D, bisulfite-modified 403012-23-7D, bisulfite-modified
403012-24-8D, bisulfite-modified 403012-25-9D, bisulfite-modified
403012-26-0D, bisulfite-modified 403012-27-1D, bisulfite-modified
403012-28-2D, bisulfite-modified 403012-29-3D, bisulfite-modified
403012-30-6D, bisulfite-modified 403012-31-7D, bisulfite-modified
403012-32-8D, bisulfite-modified 403012-33-9D, bisulfite-modified
403012-34-0D, bisulfite-modified 403012-35-1D, bisulfite-modified
403012-36-2D, bisulfite-modified 403012-37-3D, bisulfite-modified
403012-38-4D, bisulfite-modified 403012-39-5D, bisulfite-modified
403012-40-8D, bisulfite-modified 403012-41-9D, bisulfite-modified
403012-42-0D, bisulfite-modified 403012-43-1D, bisulfite-modified
403012-44-2D, bisulfite-modified 403012-45-3D, bisulfite-modified
403012-46-4D, bisulfite-modified 403012-47-5D, bisulfite-modified
403012-48-6D, bisulfite-modified 403012-49-7D, bisulfite-modified
403012-50-0D, bisulfite-modified 403012-51-1D, bisulfite-modified
403012-52-2D, bisulfite-modified 403012-53-3D, bisulfite-modified
403012-54-4D, bisulfite-modified 403012-55-5D, bisulfite-modified
403012-56-6D, bisulfite-modified 403012-57-7D, bisulfite-modified
403012-58-8D, bisulfite-modified 403012-59-9D, bisulfite-modified
403012-60-2D, bisulfite-modified 403012-61-3D, bisulfite-modified
403012-62-4D, bisulfite-modified 403012-63-5D, bisulfite-modified
403012-64-6D, bisulfite-modified 403012-65-7D, bisulfite-modified
403012-66-8D, bisulfite-modified 403012-67-9D, bisulfite-modified
403012-68-0D, bisulfite-modified 403012-69-1D, bisulfite-modified
403012-70-4D, bisulfite-modified 403012-71-5D, bisulfite-modified
403012-72-6D, bisulfite-modified 403012-73-7D, bisulfite-modified
403012-74-8D, bisulfite-modified 403012-75-9D, bisulfite-modified
403012-76-0D, bisulfite-modified 403012-77-1D, bisulfite-modified
403012-78-2D, bisulfite-modified 403012-79-3D, bisulfite-modified
403012-80-6D, bisulfite-modified 403012-81-7D, bisulfite-modified
403012-82-8D, bisulfite-modified 403012-83-9D, bisulfite-modified
403012-84-0D, bisulfite-modified 403012-85-1D, bisulfite-modified
403012-86-2D, bisulfite-modified 403012-87-3D, bisulfite-modified
403012-88-4D, bisulfite-modified 403012-89-5D, bisulfite-modified
403012-90-8D, bisulfite-modified 403012-91-9D, bisulfite-modified
403012-92-0D, bisulfite-modified 403012-93-1D, bisulfite-modified
403012-94-2D, bisulfite-modified 403012-95-3D, bisulfite-modified
403012-96-4D, bisulfite-modified 403012-97-5D, bisulfite-modified
403012-98-6D, bisulfite-modified 403012-99-7D, bisulfite-modified
403013-00-3D, bisulfite-modified 403013-01-4D, bisulfite-modified
403013-02-5D, bisulfite-modified 403013-03-6D, bisulfite-modified
403013-04-7D, bisulfite-modified 403013-05-8D, bisulfite-modified
403013-06-9D, bisulfite-modified 403013-07-0D, bisulfite-modified
403013-08-1D, bisulfite-modified 403013-09-2D, bisulfite-modified
403013-10-5D, bisulfite-modified 403013-11-6D, bisulfite-modified
403013-12-7D, bisulfite-modified 403013-13-8D, bisulfite-modified

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403014-40-4D, bisulfite-modified 403014-41-5D, bisulfite-modified
403014-42-6D, bisulfite-modified 403014-43-7D, bisulfite-modified
403014-44-8D, bisulfite-modified 403014-45-9D, bisulfite-modified
403014-46-0D, bisulfite-modified 403014-47-1D, bisulfite-modified
403014-48-2D, bisulfite-modified 403014-49-3D, bisulfite-modified
403014-50-6D, bisulfite-modified 403014-51-7D, bisulfite-modified
403014-52-8D, bisulfite-modified 403014-53-9D, bisulfite-modified
RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic
use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);
USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined
cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite
modification)

IT 403014-54-0D, bisulfite-modified 403014-55-1D, bisulfite-modified
403014-56-2D, bisulfite-modified 403014-57-3D, bisulfite-modified
403014-58-4D, bisulfite-modified 403014-59-5D, bisulfite-modified
403014-60-8D, bisulfite-modified 403014-61-9D, bisulfite-modified
403014-62-0D, bisulfite-modified 403014-63-1D, bisulfite-modified
403014-64-2D, bisulfite-modified 403014-65-3D, bisulfite-modified
403014-66-4D, bisulfite-modified 403014-67-5D, bisulfite-modified
403014-68-6D, bisulfite-modified 403014-69-7D, bisulfite-modified
403014-70-0D, bisulfite-modified 403014-71-1D, bisulfite-modified
403014-72-2D, bisulfite-modified 403014-73-3D, bisulfite-modified
403014-74-4D, bisulfite-modified 403014-75-5D, bisulfite-modified
403014-76-6D, bisulfite-modified 403014-77-7D, bisulfite-modified
403014-78-8D, bisulfite-modified 403014-79-9D, bisulfite-modified
403014-80-2D, bisulfite-modified 403014-81-3D, bisulfite-modified
403014-82-4D, bisulfite-modified 403014-83-5D, bisulfite-modified
403014-84-6D, bisulfite-modified 403014-85-7D, bisulfite-modified
403014-86-8D, bisulfite-modified 403014-87-9D, bisulfite-modified
403014-88-0D, bisulfite-modified 403014-89-1D, bisulfite-modified
403014-90-4D, bisulfite-modified 403014-91-5D, bisulfite-modified
403014-92-6D, bisulfite-modified 403014-93-7D, bisulfite-modified
403014-94-8D, bisulfite-modified 403014-95-9D, bisulfite-modified
403014-96-0D, bisulfite-modified 403014-97-1D, bisulfite-modified
403014-98-2D, bisulfite-modified 403014-99-3D, bisulfite-modified
403015-00-9D, bisulfite-modified 403015-01-0D, bisulfite-modified
403015-02-1D, bisulfite-modified 403015-03-2D, bisulfite-modified
403015-04-3D, bisulfite-modified 403015-05-4D, bisulfite-modified
403015-06-5D, bisulfite-modified 403015-07-6D, bisulfite-modified
403015-08-7D, bisulfite-modified 403015-09-8D, bisulfite-modified
403015-10-1D, bisulfite-modified 403015-11-2D, bisulfite-modified
403015-12-3D, bisulfite-modified 403015-13-4D, bisulfite-modified
403015-14-5D, bisulfite-modified 403015-15-6D, bisulfite-modified
403015-16-7D, bisulfite-modified 403015-17-8D, bisulfite-modified
403015-18-9D, bisulfite-modified 403015-19-0D, bisulfite-modified
403015-20-3D, bisulfite-modified 403015-21-4D, bisulfite-modified
403015-22-5D, bisulfite-modified 403015-23-6D, bisulfite-modified
403015-24-7D, bisulfite-modified 403015-25-8D, bisulfite-modified
403015-26-9D, bisulfite-modified 403015-27-0D, bisulfite-modified
403015-28-1D, bisulfite-modified 403015-29-2D, bisulfite-modified
403015-30-5D, bisulfite-modified 403015-31-6D, bisulfite-modified
403015-32-7D, bisulfite-modified 403015-33-8D, bisulfite-modified
403015-34-9D, bisulfite-modified 403015-35-0D, bisulfite-modified
403015-36-1D, bisulfite-modified 403015-37-2D, bisulfite-modified
403015-38-3D, bisulfite-modified 403015-39-4D, bisulfite-modified
403015-40-7D, bisulfite-modified 403015-41-8D, bisulfite-modified
403015-42-9D, bisulfite-modified 403015-43-0D, bisulfite-modified
403015-44-1D, bisulfite-modified 403015-45-2D, bisulfite-modified
403015-46-3D, bisulfite-modified 403015-47-4D, bisulfite-modified
403015-48-5D, bisulfite-modified 403015-49-6D, bisulfite-modified
403015-50-9D, bisulfite-modified 403015-51-0D, bisulfite-modified
403015-52-1D, bisulfite-modified 403015-53-2D, bisulfite-modified

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403016-80-8D, bisulfite-modified 403016-81-9D, bisulfite-modified
403016-82-0D, bisulfite-modified 403016-83-1D, bisulfite-modified
403016-84-2D, bisulfite-modified 403016-85-3D, bisulfite-modified
403016-86-4D, bisulfite-modified 403016-87-5D, bisulfite-modified
RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic
use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);
USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined
cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite
modification)

IT 403016-88-6D, bisulfite-modified 403016-89-7D, bisulfite-modified
403016-90-0D, bisulfite-modified 403016-91-1D, bisulfite-modified
403016-92-2D, bisulfite-modified 403016-93-3D, bisulfite-modified
403016-94-4D, bisulfite-modified 403016-95-5D, bisulfite-modified
403016-96-6D, bisulfite-modified 403016-97-7D, bisulfite-modified
403016-98-8D, bisulfite-modified 403016-99-9D, bisulfite-modified
403017-00-5D, bisulfite-modified 403017-01-6D, bisulfite-modified
403017-02-7D, bisulfite-modified 403017-03-8D, bisulfite-modified
403017-04-9D, bisulfite-modified 403017-05-0D, bisulfite-modified
403017-06-1D, bisulfite-modified 403017-07-2D, bisulfite-modified
403017-08-3D, bisulfite-modified 403017-09-4D, bisulfite-modified
403017-10-7D, bisulfite-modified 403017-11-8D, bisulfite-modified
403017-12-9D, bisulfite-modified 403017-13-0D, bisulfite-modified
403017-14-1D, bisulfite-modified 403017-15-2D, bisulfite-modified
403017-16-3D, bisulfite-modified 403017-17-4D, bisulfite-modified
403017-18-5D, bisulfite-modified 403017-19-6D, bisulfite-modified
403017-20-9D, bisulfite-modified 403017-21-0D, bisulfite-modified
403017-22-1D, bisulfite-modified 403017-23-2D, bisulfite-modified
403017-24-3D, bisulfite-modified 403017-25-4D, bisulfite-modified
403017-26-5D, bisulfite-modified 403017-27-6D, bisulfite-modified
403017-28-7D, bisulfite-modified 403017-29-8D, bisulfite-modified
403017-30-1D, bisulfite-modified 403017-31-2D, bisulfite-modified
403017-32-3D, bisulfite-modified 403017-33-4D, bisulfite-modified
403017-34-5D, bisulfite-modified 403017-35-6D, bisulfite-modified
403017-36-7D, bisulfite-modified 403017-37-8D, bisulfite-modified
403017-38-9D, bisulfite-modified 403017-39-0D, bisulfite-modified
403017-40-3D, bisulfite-modified 403017-41-4D, bisulfite-modified
403017-42-5D, bisulfite-modified 403017-43-6D, bisulfite-modified
403017-44-7D, bisulfite-modified 403017-45-8D, bisulfite-modified
403017-46-9D, bisulfite-modified 403017-47-0D, bisulfite-modified
403017-48-1D, bisulfite-modified 403017-49-2D, bisulfite-modified
403017-50-5D, bisulfite-modified 403017-51-6D, bisulfite-modified
403017-52-7D, bisulfite-modified 403017-53-8D, bisulfite-modified
403017-54-9D, bisulfite-modified 403017-55-0D, bisulfite-modified
403017-56-1D, bisulfite-modified 403017-57-2D, bisulfite-modified
403017-58-3D, bisulfite-modified 403017-59-4D, bisulfite-modified
403017-60-7D, bisulfite-modified 403017-61-8D, bisulfite-modified
403017-62-9D, bisulfite-modified 403017-63-0D, bisulfite-modified
403017-64-1D, bisulfite-modified 403017-65-2D, bisulfite-modified
403017-66-3D, bisulfite-modified 403017-67-4D, bisulfite-modified
403017-68-5D, bisulfite-modified 403017-69-6D, bisulfite-modified
403017-70-9D, bisulfite-modified 403017-71-0D, bisulfite-modified
403017-72-1D, bisulfite-modified 403017-73-2D, bisulfite-modified
403017-74-3D, bisulfite-modified 403017-75-4D, bisulfite-modified
403017-76-5D, bisulfite-modified 403017-77-6D, bisulfite-modified
403017-78-7D, bisulfite-modified 403017-79-8D, bisulfite-modified
403017-80-1D, bisulfite-modified 403017-81-2D, bisulfite-modified
403017-82-3D, bisulfite-modified 403017-83-4D, bisulfite-modified
403017-84-5D, bisulfite-modified 403017-85-6D, bisulfite-modified
403017-86-7D, bisulfite-modified 403017-87-8D, bisulfite-modified
403017-88-9D, bisulfite-modified 403017-89-0D, bisulfite-modified
403017-90-3D, bisulfite-modified 403017-91-4D, bisulfite-modified
403017-92-5D, bisulfite-modified 403017-93-6D, bisulfite-modified

[illegible]

403019-20-5D, bisulfite-modified 403019-21-6D, bisulfite-modified
RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic
use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);
USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined
cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite
modification)

IT	403019-22-7D, bisulfite-modified	403019-23-8D, bisulfite-modified
	403019-24-9D, bisulfite-modified	403019-25-0D, bisulfite-modified
	403019-26-1D, bisulfite-modified	403019-27-2D, bisulfite-modified
	403019-28-3D, bisulfite-modified	403019-29-4D, bisulfite-modified
	403019-30-7D, bisulfite-modified	403019-31-8D, bisulfite-modified
	403019-32-9D, bisulfite-modified	403019-33-0D, bisulfite-modified
	403019-34-1D, bisulfite-modified	403019-35-2D, bisulfite-modified
	403019-36-3D, bisulfite-modified	403019-37-4D, bisulfite-modified
	403019-38-5D, bisulfite-modified	403019-39-6D, bisulfite-modified
	403019-40-9D, bisulfite-modified	403019-41-0D, bisulfite-modified
	403019-42-1D, bisulfite-modified	403019-43-2D, bisulfite-modified
	403019-44-3D, bisulfite-modified	403019-45-4D, bisulfite-modified
	403019-46-5D, bisulfite-modified	403019-47-6D, bisulfite-modified
	403019-48-7D, bisulfite-modified	403019-49-8D, bisulfite-modified
	403019-50-1D, bisulfite-modified	403019-51-2D, bisulfite-modified
	403019-52-3D, bisulfite-modified	403019-53-4D, bisulfite-modified
	403019-54-5D, bisulfite-modified	403019-55-6D, bisulfite-modified
	403019-56-7D, bisulfite-modified	403019-57-8D, bisulfite-modified
	403019-58-9D, bisulfite-modified	403019-59-0D, bisulfite-modified
	403019-60-3D, bisulfite-modified	403019-61-4D, bisulfite-modified
	403019-62-5D, bisulfite-modified	403019-63-6D, bisulfite-modified
	403019-64-7D, bisulfite-modified	403019-65-8D, bisulfite-modified
	403019-66-9D, bisulfite-modified	403019-67-0D, bisulfite-modified
	403019-68-1D, bisulfite-modified	403019-69-2D, bisulfite-modified
	403019-70-5D, bisulfite-modified	403019-71-6D, bisulfite-modified
	403019-72-7D, bisulfite-modified	403019-73-8D, bisulfite-modified
	403019-74-9D, bisulfite-modified	403019-75-0D, bisulfite-modified
	403019-76-1D, bisulfite-modified	403019-77-2D, bisulfite-modified
	403019-78-3D, bisulfite-modified	403019-79-4D, bisulfite-modified
	403019-80-7D, bisulfite-modified	403019-81-8D, bisulfite-modified
	403019-82-9D, bisulfite-modified	403019-83-0D, bisulfite-modified
	403019-84-1D, bisulfite-modified	403019-85-2D, bisulfite-modified
	403019-86-3D, bisulfite-modified	403019-87-4D, bisulfite-modified
	403019-88-5D, bisulfite-modified	403019-89-6D, bisulfite-modified
	403019-90-9D, bisulfite-modified	403019-91-0D, bisulfite-modified
	403019-92-1D, bisulfite-modified	403019-93-2D, bisulfite-modified
	403019-94-3D, bisulfite-modified	403019-95-4D, bisulfite-modified
	403019-96-5D, bisulfite-modified	403019-97-6D, bisulfite-modified
	403019-98-7D, bisulfite-modified	403019-99-8D, bisulfite-modified
	403020-00-8D, bisulfite-modified	403020-01-9D, bisulfite-modified
	403020-02-0D, bisulfite-modified	403020-03-1D, bisulfite-modified
	403020-04-2D, bisulfite-modified	403020-05-3D, bisulfite-modified
	403020-06-4D, bisulfite-modified	403020-07-5D, bisulfite-modified
	403020-08-6D, bisulfite-modified	403020-09-7D, bisulfite-modified
	403020-10-0D, bisulfite-modified	403020-11-1D, bisulfite-modified
	403020-12-2D, bisulfite-modified	403020-13-3D, bisulfite-modified
	403020-14-4D, bisulfite-modified	403020-15-5D, bisulfite-modified
	403020-16-6D, bisulfite-modified	403020-17-7D, bisulfite-modified
	403020-18-8D, bisulfite-modified	403020-19-9D, bisulfite-modified
	403020-20-2D, bisulfite-modified	403020-21-3D, bisulfite-modified
	403020-22-4D, bisulfite-modified	403020-23-5D, bisulfite-modified
	403020-24-6D, bisulfite-modified	403020-25-7D, bisulfite-modified
	403020-26-8D, bisulfite-modified	403020-27-9D, bisulfite-modified
	403020-28-0D, bisulfite-modified	403020-29-1D, bisulfite-modified
	403020-30-4D, bisulfite-modified	403020-31-5D, bisulfite-modified
	403020-32-6D, bisulfite-modified	403020-33-7D, bisulfite-modified

403020-34-8D, bisulfite-modified	403020-35-9D, bisulfite-modified
403020-36-0D, bisulfite-modified	403020-37-1D, bisulfite-modified
403020-38-2D, bisulfite-modified	403020-39-3D, bisulfite-modified
403020-40-6D, bisulfite-modified	403020-41-7D, bisulfite-modified
403020-42-8D, bisulfite-modified	403020-43-9D, bisulfite-modified
403020-44-0D, bisulfite-modified	403020-45-1D, bisulfite-modified
403020-46-2D, bisulfite-modified	403020-47-3D, bisulfite-modified
403020-48-4D, bisulfite-modified	403020-49-5D, bisulfite-modified
403020-50-8D, bisulfite-modified	403020-51-9D, bisulfite-modified
403020-52-0D, bisulfite-modified	403020-53-1D, bisulfite-modified
403020-54-2D, bisulfite-modified	403020-55-3D, bisulfite-modified
403020-56-4D, bisulfite-modified	403020-57-5D, bisulfite-modified
403020-58-6D, bisulfite-modified	403020-59-7D, bisulfite-modified
403020-60-0D, bisulfite-modified	403020-61-1D, bisulfite-modified
403020-62-2D, bisulfite-modified	403020-63-3D, bisulfite-modified
403020-64-4D, bisulfite-modified	403020-65-5D, bisulfite-modified
403020-66-6D, bisulfite-modified	403020-67-7D, bisulfite-modified
403020-68-8D, bisulfite-modified	403020-69-9D, bisulfite-modified
403020-70-2D, bisulfite-modified	403020-71-3D, bisulfite-modified
403020-72-4D, bisulfite-modified	403020-73-5D, bisulfite-modified
403020-74-6D, bisulfite-modified	403020-75-7D, bisulfite-modified
403020-76-8D, bisulfite-modified	403020-77-9D, bisulfite-modified
403020-78-0D, bisulfite-modified	403020-79-1D, bisulfite-modified
403020-80-4D, bisulfite-modified	403020-81-5D, bisulfite-modified
403020-82-6D, bisulfite-modified	403020-83-7D, bisulfite-modified
403020-84-8D, bisulfite-modified	403020-85-9D, bisulfite-modified
403020-86-0D, bisulfite-modified	403020-87-1D, bisulfite-modified
403020-88-2D, bisulfite-modified	403020-89-3D, bisulfite-modified
403020-90-6D, bisulfite-modified	403020-91-7D, bisulfite-modified
403020-92-8D, bisulfite-modified	403020-93-9D, bisulfite-modified
403020-94-0D, bisulfite-modified	403020-95-1D, bisulfite-modified
403020-96-2D, bisulfite-modified	403020-97-3D, bisulfite-modified
403020-98-4D, bisulfite-modified	403020-99-5D, bisulfite-modified
403021-00-1D, bisulfite-modified	403021-01-2D, bisulfite-modified
403021-02-3D, bisulfite-modified	403021-03-4D, bisulfite-modified
403021-04-5D, bisulfite-modified	403021-05-6D, bisulfite-modified
403021-06-7D, bisulfite-modified	403021-07-8D, bisulfite-modified
403021-08-9D, bisulfite-modified	403021-09-0D, bisulfite-modified
403021-10-3D, bisulfite-modified	403021-11-4D, bisulfite-modified
403021-12-5D, bisulfite-modified	403021-13-6D, bisulfite-modified
403021-14-7D, bisulfite-modified	403021-15-8D, bisulfite-modified
403021-16-9D, bisulfite-modified	403021-17-0D, bisulfite-modified
403021-18-1D, bisulfite-modified	403021-19-2D, bisulfite-modified
403021-20-5D, bisulfite-modified	403021-21-6D, bisulfite-modified
403021-22-7D, bisulfite-modified	403021-23-8D, bisulfite-modified
403021-24-9D, bisulfite-modified	403021-25-0D, bisulfite-modified
403021-26-1D, bisulfite-modified	403021-27-2D, bisulfite-modified
403021-28-3D, bisulfite-modified	403021-29-4D, bisulfite-modified
403021-30-7D, bisulfite-modified	403021-31-8D, bisulfite-modified
403021-32-9D, bisulfite-modified	403021-33-0D, bisulfite-modified
403021-34-1D, bisulfite-modified	403021-35-2D, bisulfite-modified
403021-36-3D, bisulfite-modified	403021-37-4D, bisulfite-modified
403021-38-5D, bisulfite-modified	403021-39-6D, bisulfite-modified
403021-40-9D, bisulfite-modified	403021-41-0D, bisulfite-modified
403021-42-1D, bisulfite-modified	403021-43-2D, bisulfite-modified
403021-44-3D, bisulfite-modified	403021-45-4D, bisulfite-modified
403021-46-5D, bisulfite-modified	403021-47-6D, bisulfite-modified
403021-48-7D, bisulfite-modified	403021-49-8D, bisulfite-modified
403021-50-1D, bisulfite-modified	403021-51-2D, bisulfite-modified
403021-52-3D, bisulfite-modified	403021-53-4D, bisulfite-modified
403021-54-5D, bisulfite-modified	403021-55-6D, bisulfite-modified

RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);

USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT	403021-56-7D, bisulfite-modified	403021-57-8D, bisulfite-modified
	403021-58-9D, bisulfite-modified	403021-59-0D, bisulfite-modified
	403021-60-3D, bisulfite-modified	403021-61-4D, bisulfite-modified
	403021-62-5D, bisulfite-modified	403021-63-6D, bisulfite-modified
	403021-64-7D, bisulfite-modified	403021-65-8D, bisulfite-modified
	403021-66-9D, bisulfite-modified	403021-67-0D, bisulfite-modified
	403021-68-1D, bisulfite-modified	403021-69-2D, bisulfite-modified
	403021-70-5D, bisulfite-modified	403021-71-6D, bisulfite-modified
	403021-72-7D, bisulfite-modified	403021-73-8D, bisulfite-modified
	403021-74-9D, bisulfite-modified	403021-75-0D, bisulfite-modified
	403021-76-1D, bisulfite-modified	403021-77-2D, bisulfite-modified
	403021-78-3D, bisulfite-modified	403021-79-4D, bisulfite-modified
	403021-80-7D, bisulfite-modified	403021-81-8D, bisulfite-modified
	403021-82-9D, bisulfite-modified	403021-83-0D, bisulfite-modified
	403021-84-1D, bisulfite-modified	403021-85-2D, bisulfite-modified
	403021-86-3D, bisulfite-modified	403021-87-4D, bisulfite-modified
	403021-88-5D, bisulfite-modified	403021-89-6D, bisulfite-modified
	403021-90-9D, bisulfite-modified	403021-91-0D, bisulfite-modified
	403021-92-1D, bisulfite-modified	403021-93-2D, bisulfite-modified
	403021-94-3D, bisulfite-modified	403021-95-4D, bisulfite-modified
	403021-96-5D, bisulfite-modified	403021-97-6D, bisulfite-modified
	403021-98-7D, bisulfite-modified	403021-99-8D, bisulfite-modified
	403022-00-4D, bisulfite-modified	403022-01-5D, bisulfite-modified
	403022-02-6D, bisulfite-modified	403022-03-7D, bisulfite-modified
	403022-04-8D, bisulfite-modified	403022-05-9D, bisulfite-modified
	403022-06-0D, bisulfite-modified	403022-07-1D, bisulfite-modified
	403022-08-2D, bisulfite-modified	403022-09-3D, bisulfite-modified
	403022-10-6D, bisulfite-modified	403022-11-7D, bisulfite-modified
	403022-12-8D, bisulfite-modified	403022-13-9D, bisulfite-modified
	403022-14-0D, bisulfite-modified	403022-15-1D, bisulfite-modified
	403022-16-2D, bisulfite-modified	403022-17-3D, bisulfite-modified
	403022-18-4D, bisulfite-modified	403022-19-5D, bisulfite-modified
	403022-20-8D, bisulfite-modified	403022-21-9D, bisulfite-modified
	403022-22-0D, bisulfite-modified	403022-23-1D, bisulfite-modified
	403022-24-2D, bisulfite-modified	403022-25-3D, bisulfite-modified
	403022-26-4D, bisulfite-modified	403022-27-5D, bisulfite-modified
	403022-28-6D, bisulfite-modified	403022-29-7D, bisulfite-modified
	403022-30-0D, bisulfite-modified	403022-31-1D, bisulfite-modified
	403022-32-2D, bisulfite-modified	403022-33-3D, bisulfite-modified
	403022-34-4D, bisulfite-modified	403022-35-5D, bisulfite-modified
	403022-36-6D, bisulfite-modified	403022-37-7D, bisulfite-modified
	403022-38-8D, bisulfite-modified	403022-39-9D, bisulfite-modified
	403022-40-2D, bisulfite-modified	403022-41-3D, bisulfite-modified
	403022-42-4D, bisulfite-modified	403022-43-5D, bisulfite-modified
	403022-44-6D, bisulfite-modified	403022-45-7D, bisulfite-modified
	403022-46-8D, bisulfite-modified	403022-47-9D, bisulfite-modified
	403022-48-0D, bisulfite-modified	403022-49-1D, bisulfite-modified
	403022-50-4D, bisulfite-modified	403022-51-5D, bisulfite-modified
	403022-52-6D, bisulfite-modified	403022-53-7D, bisulfite-modified
	403022-54-8D, bisulfite-modified	403022-55-9D, bisulfite-modified
	403022-56-0D, bisulfite-modified	403022-57-1D, bisulfite-modified
	403022-58-2D, bisulfite-modified	403022-59-3D, bisulfite-modified
	403022-60-6D, bisulfite-modified	403022-61-7D, bisulfite-modified
	403022-62-8D, bisulfite-modified	403022-63-9D, bisulfite-modified
	403022-64-0D, bisulfite-modified	403022-65-1D, bisulfite-modified
	403022-66-2D, bisulfite-modified	403022-67-3D, bisulfite-modified
	403022-68-4D, bisulfite-modified	403022-69-5D, bisulfite-modified
	403022-70-8D, bisulfite-modified	403022-71-9D, bisulfite-modified
	403022-72-0D, bisulfite-modified	403022-73-1D, bisulfite-modified

403022-74-2D, bisulfite-modified	403022-75-3D, bisulfite-modified
403022-76-4D, bisulfite-modified	403022-77-5D, bisulfite-modified
403022-78-6D, bisulfite-modified	403022-79-7D, bisulfite-modified
403022-80-0D, bisulfite-modified	403022-81-1D, bisulfite-modified
403022-82-2D, bisulfite-modified	403022-83-3D, bisulfite-modified
403022-84-4D, bisulfite-modified	403022-85-5D, bisulfite-modified
403022-86-6D, bisulfite-modified	403022-87-7D, bisulfite-modified
403022-88-8D, bisulfite-modified	403022-89-9D, bisulfite-modified
403022-90-2D, bisulfite-modified	403022-91-3D, bisulfite-modified
403022-92-4D, bisulfite-modified	403022-93-5D, bisulfite-modified
403022-94-6D, bisulfite-modified	403022-95-7D, bisulfite-modified
403022-96-8D, bisulfite-modified	403022-97-9D, bisulfite-modified
403022-98-0D, bisulfite-modified	403022-99-1D, bisulfite-modified
403023-00-7D, bisulfite-modified	403023-01-8D, bisulfite-modified
403023-02-9D, bisulfite-modified	403023-03-0D, bisulfite-modified
403023-04-1D, bisulfite-modified	403023-05-2D, bisulfite-modified
403023-06-3D, bisulfite-modified	403023-07-4D, bisulfite-modified
403023-08-5D, bisulfite-modified	403023-09-6D, bisulfite-modified
403023-10-9D, bisulfite-modified	403023-11-0D, bisulfite-modified
403023-12-1D, bisulfite-modified	403023-13-2D, bisulfite-modified
403023-14-3D, bisulfite-modified	403023-15-4D, bisulfite-modified
403023-16-5D, bisulfite-modified	403023-17-6D, bisulfite-modified
403023-18-7D, bisulfite-modified	403023-19-8D, bisulfite-modified
403023-20-1D, bisulfite-modified	403023-21-2D, bisulfite-modified
403023-22-3D, bisulfite-modified	403023-23-4D, bisulfite-modified
403023-24-5D, bisulfite-modified	403023-25-6D, bisulfite-modified
403023-26-7D, bisulfite-modified	403023-27-8D, bisulfite-modified
403023-28-9D, bisulfite-modified	403023-29-0D, bisulfite-modified
403023-30-3D, bisulfite-modified	403023-31-4D, bisulfite-modified
403023-32-5D, bisulfite-modified	403023-33-6D, bisulfite-modified
403023-34-7D, bisulfite-modified	403023-35-8D, bisulfite-modified
403023-36-9D, bisulfite-modified	403023-37-0D, bisulfite-modified
403023-38-1D, bisulfite-modified	403023-39-2D, bisulfite-modified
403023-40-5D, bisulfite-modified	403023-41-6D, bisulfite-modified
403023-42-7D, bisulfite-modified	403023-43-8D, bisulfite-modified
403023-44-9D, bisulfite-modified	403023-45-0D, bisulfite-modified
403023-46-1D, bisulfite-modified	403023-47-2D, bisulfite-modified
403023-48-3D, bisulfite-modified	403023-49-4D, bisulfite-modified
403023-50-7D, bisulfite-modified	403023-51-8D, bisulfite-modified
403023-52-9D, bisulfite-modified	403023-53-0D, bisulfite-modified
403023-54-1D, bisulfite-modified	403023-55-2D, bisulfite-modified
403023-56-3D, bisulfite-modified	403023-57-4D, bisulfite-modified
403023-58-5D, bisulfite-modified	403023-59-6D, bisulfite-modified
403023-60-9D, bisulfite-modified	403023-61-0D, bisulfite-modified
403023-62-1D, bisulfite-modified	403023-63-2D, bisulfite-modified
403023-64-3D, bisulfite-modified	403023-65-4D, bisulfite-modified
403023-66-5D, bisulfite-modified	403023-67-6D, bisulfite-modified
403023-68-7D, bisulfite-modified	403023-69-8D, bisulfite-modified
403023-70-1D, bisulfite-modified	403023-71-2D, bisulfite-modified
403023-72-3D, bisulfite-modified	403023-73-4D, bisulfite-modified
403023-74-5D, bisulfite-modified	403023-75-6D, bisulfite-modified
403023-76-7D, bisulfite-modified	403023-77-8D, bisulfite-modified
403023-78-9D, bisulfite-modified	403023-79-0D, bisulfite-modified
403023-80-3D, bisulfite-modified	403023-81-4D, bisulfite-modified
403023-82-5D, bisulfite-modified	403023-83-6D, bisulfite-modified
403023-84-7D, bisulfite-modified	403023-85-8D, bisulfite-modified
403023-86-9D, bisulfite-modified	403023-87-0D, bisulfite-modified
403023-88-1D, bisulfite-modified	403023-89-2D, bisulfite-modified

RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite

[illegible]

403025-14-9D, bisulfite-modified	403025-15-0D, bisulfite-modified
403025-16-1D, bisulfite-modified	403025-17-2D, bisulfite-modified
403025-18-3D, bisulfite-modified	403025-19-4D, bisulfite-modified
403025-20-7D, bisulfite-modified	403025-21-8D, bisulfite-modified
403025-22-9D, bisulfite-modified	403025-23-0D, bisulfite-modified
403025-24-1D, bisulfite-modified	403025-25-2D, bisulfite-modified
403025-26-3D, bisulfite-modified	403025-27-4D, bisulfite-modified
403025-28-5D, bisulfite-modified	403025-29-6D, bisulfite-modified
403025-30-9D, bisulfite-modified	403025-31-0D, bisulfite-modified
403025-32-1D, bisulfite-modified	403025-33-2D, bisulfite-modified
403025-34-3D, bisulfite-modified	403025-35-4D, bisulfite-modified
403025-36-5D, bisulfite-modified	403025-37-6D, bisulfite-modified
403025-38-7D, bisulfite-modified	403025-39-8D, bisulfite-modified
403025-40-1D, bisulfite-modified	403025-41-2D, bisulfite-modified
403025-42-3D, bisulfite-modified	403025-43-4D, bisulfite-modified
403025-44-5D, bisulfite-modified	403025-45-6D, bisulfite-modified
403025-46-7D, bisulfite-modified	403025-47-8D, bisulfite-modified
403025-48-9D, bisulfite-modified	403025-49-0D, bisulfite-modified
403025-50-3D, bisulfite-modified	403025-51-4D, bisulfite-modified
403025-52-5D, bisulfite-modified	403025-53-6D, bisulfite-modified
403025-54-7D, bisulfite-modified	403025-55-8D, bisulfite-modified
403025-56-9D, bisulfite-modified	403025-57-0D, bisulfite-modified
403025-58-1D, bisulfite-modified	403025-59-2D, bisulfite-modified
403025-60-5D, bisulfite-modified	403025-61-6D, bisulfite-modified
403025-62-7D, bisulfite-modified	403025-63-8D, bisulfite-modified
403025-64-9D, bisulfite-modified	403025-65-0D, bisulfite-modified
403025-66-1D, bisulfite-modified	403025-67-2D, bisulfite-modified
403025-68-3D, bisulfite-modified	403025-69-4D, bisulfite-modified
403025-70-7D, bisulfite-modified	403025-71-8D, bisulfite-modified
403025-72-9D, bisulfite-modified	403025-73-0D, bisulfite-modified
403025-74-1D, bisulfite-modified	403025-75-2D, bisulfite-modified
403025-76-3D, bisulfite-modified	403025-77-4D, bisulfite-modified
403025-78-5D, bisulfite-modified	403025-79-6D, bisulfite-modified
403025-80-9D, bisulfite-modified	403025-81-0D, bisulfite-modified
403025-82-1D, bisulfite-modified	403025-83-2D, bisulfite-modified
403025-84-3D, bisulfite-modified	403025-85-4D, bisulfite-modified
403025-86-5D, bisulfite-modified	403025-87-6D, bisulfite-modified
403025-88-7D, bisulfite-modified	403025-89-8D, bisulfite-modified
403025-90-1D, bisulfite-modified	403025-91-2D, bisulfite-modified
403025-92-3D, bisulfite-modified	403025-93-4D, bisulfite-modified
403025-94-5D, bisulfite-modified	403025-95-6D, bisulfite-modified
403025-96-7D, bisulfite-modified	403025-97-8D, bisulfite-modified
403025-98-9D, bisulfite-modified	403025-99-0D, bisulfite-modified
403026-00-6D, bisulfite-modified	403026-01-7D, bisulfite-modified
403026-02-8D, bisulfite-modified	403026-03-9D, bisulfite-modified
403026-04-0D, bisulfite-modified	403026-05-1D, bisulfite-modified
403026-06-2D, bisulfite-modified	403026-07-3D, bisulfite-modified
403026-08-4D, bisulfite-modified	403026-09-5D, bisulfite-modified
403026-10-8D, bisulfite-modified	403026-11-9D, bisulfite-modified
403026-12-0D, bisulfite-modified	403026-13-1D, bisulfite-modified
403026-14-2D, bisulfite-modified	403026-15-3D, bisulfite-modified
403026-16-4D, bisulfite-modified	403026-17-5D, bisulfite-modified
403026-18-6D, bisulfite-modified	403026-19-7D, bisulfite-modified
403026-20-0D, bisulfite-modified	403026-21-1D, bisulfite-modified
403026-22-2D, bisulfite-modified	403026-23-3D, bisulfite-modified

RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT 403026-24-4D, bisulfite-modified	403026-25-5D, bisulfite-modified
403026-26-6D, bisulfite-modified	403026-27-7D, bisulfite-modified

[illegible]

403027-54-3D, bisulfite-modified	403027-55-4D, bisulfite-modified
403027-56-5D, bisulfite-modified	403027-57-6D, bisulfite-modified
403027-58-7D, bisulfite-modified	403027-59-8D, bisulfite-modified
403027-60-1D, bisulfite-modified	403027-61-2D, bisulfite-modified
403027-62-3D, bisulfite-modified	403027-63-4D, bisulfite-modified
403027-64-5D, bisulfite-modified	403027-65-6D, bisulfite-modified
403027-66-7D, bisulfite-modified	403027-67-8D, bisulfite-modified
403027-68-9D, bisulfite-modified	403027-69-0D, bisulfite-modified
403027-70-3D, bisulfite-modified	403027-71-4D, bisulfite-modified
403027-72-5D, bisulfite-modified	403027-73-6D, bisulfite-modified
403027-74-7D, bisulfite-modified	403027-75-8D, bisulfite-modified
403027-76-9D, bisulfite-modified	403027-77-0D, bisulfite-modified
403027-78-1D, bisulfite-modified	403027-79-2D, bisulfite-modified
403027-80-5D, bisulfite-modified	403027-81-6D, bisulfite-modified
403027-82-7D, bisulfite-modified	403027-83-8D, bisulfite-modified
403027-84-9D, bisulfite-modified	403027-85-0D, bisulfite-modified
403027-86-1D, bisulfite-modified	403027-87-2D, bisulfite-modified
403027-88-3D, bisulfite-modified	403027-89-4D, bisulfite-modified
403027-90-7D, bisulfite-modified	403027-91-8D, bisulfite-modified
403027-92-9D, bisulfite-modified	403027-93-0D, bisulfite-modified
403027-94-1D, bisulfite-modified	403027-95-2D, bisulfite-modified
403027-96-3D, bisulfite-modified	403027-97-4D, bisulfite-modified
403027-98-5D, bisulfite-modified	403027-99-6D, bisulfite-modified
403028-00-2D, bisulfite-modified	403028-01-3D, bisulfite-modified
403028-02-4D, bisulfite-modified	403028-03-5D, bisulfite-modified
403028-04-6D, bisulfite-modified	403028-05-7D, bisulfite-modified
403028-06-8D, bisulfite-modified	403028-07-9D, bisulfite-modified
403028-08-0D, bisulfite-modified	403028-09-1D, bisulfite-modified
403028-10-4D, bisulfite-modified	403028-11-5D, bisulfite-modified
403028-12-6D, bisulfite-modified	403028-13-7D, bisulfite-modified
403028-14-8D, bisulfite-modified	403028-15-9D, bisulfite-modified
403028-16-0D, bisulfite-modified	403028-17-1D, bisulfite-modified
403028-18-2D, bisulfite-modified	403028-19-3D, bisulfite-modified
403028-20-6D, bisulfite-modified	403028-21-7D, bisulfite-modified
403028-22-8D, bisulfite-modified	403028-23-9D, bisulfite-modified
403028-24-0D, bisulfite-modified	403028-25-1D, bisulfite-modified
403028-26-2D, bisulfite-modified	403028-27-3D, bisulfite-modified
403028-28-4D, bisulfite-modified	403028-29-5D, bisulfite-modified
403028-30-8D, bisulfite-modified	403028-31-9D, bisulfite-modified
403028-32-0D, bisulfite-modified	403028-33-1D, bisulfite-modified
403028-34-2D, bisulfite-modified	403028-35-3D, bisulfite-modified
403028-36-4D, bisulfite-modified	403028-37-5D, bisulfite-modified
403028-38-6D, bisulfite-modified	403028-39-7D, bisulfite-modified
403028-40-0D, bisulfite-modified	403028-41-1D, bisulfite-modified
403028-42-2D, bisulfite-modified	403028-43-3D, bisulfite-modified
403028-44-4D, bisulfite-modified	403028-45-5D, bisulfite-modified
403028-46-6D, bisulfite-modified	403028-47-7D, bisulfite-modified
403028-48-8D, bisulfite-modified	403028-49-9D, bisulfite-modified
403028-50-2D, bisulfite-modified	403028-51-3D, bisulfite-modified
403028-52-4D, bisulfite-modified	403028-53-5D, bisulfite-modified
403028-54-6D, bisulfite-modified	403028-55-7D, bisulfite-modified
403028-56-8D, bisulfite-modified	403028-57-9D, bisulfite-modified

RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT	403028-58-0D, bisulfite-modified	403028-59-1D, bisulfite-modified
	403028-60-4D, bisulfite-modified	403028-61-5D, bisulfite-modified
	403028-62-6D, bisulfite-modified	403028-63-7D, bisulfite-modified
	403028-64-8D, bisulfite-modified	403028-65-9D, bisulfite-modified
	403028-66-0D, bisulfite-modified	403028-67-1D, bisulfite-modified

[illegible]

403029-94-7D, bisulfite-modified	403029-95-8D, bisulfite-modified
403029-96-9D, bisulfite-modified	403029-97-0D, bisulfite-modified
403029-98-1D, bisulfite-modified	403029-99-2D, bisulfite-modified
403030-00-2D, bisulfite-modified	403030-01-3D, bisulfite-modified
403030-02-4D, bisulfite-modified	403030-03-5D, bisulfite-modified
403030-04-6D, bisulfite-modified	403030-05-7D, bisulfite-modified
403030-06-8D, bisulfite-modified	403030-07-9D, bisulfite-modified
403030-08-0D, bisulfite-modified	403030-09-1D, bisulfite-modified
403030-10-4D, bisulfite-modified	403030-11-5D, bisulfite-modified
403030-12-6D, bisulfite-modified	403030-13-7D, bisulfite-modified
403030-14-8D, bisulfite-modified	403030-15-9D, bisulfite-modified
403030-16-0D, bisulfite-modified	403030-17-1D, bisulfite-modified
403030-18-2D, bisulfite-modified	403030-19-3D, bisulfite-modified
403030-20-6D, bisulfite-modified	403030-21-7D, bisulfite-modified
403030-22-8D, bisulfite-modified	403030-23-9D, bisulfite-modified
403030-24-0D, bisulfite-modified	403030-25-1D, bisulfite-modified
403030-26-2D, bisulfite-modified	403030-27-3D, bisulfite-modified
403030-28-4D, bisulfite-modified	403030-29-5D, bisulfite-modified
403030-30-8D, bisulfite-modified	403030-31-9D, bisulfite-modified
403030-32-0D, bisulfite-modified	403030-33-1D, bisulfite-modified
403030-34-2D, bisulfite-modified	403030-35-3D, bisulfite-modified
403030-36-4D, bisulfite-modified	403030-37-5D, bisulfite-modified
403030-38-6D, bisulfite-modified	403030-39-7D, bisulfite-modified
403030-40-0D, bisulfite-modified	403030-41-1D, bisulfite-modified
403030-42-2D, bisulfite-modified	403030-43-3D, bisulfite-modified
403030-44-4D, bisulfite-modified	403030-45-5D, bisulfite-modified
403030-46-6D, bisulfite-modified	403030-47-7D, bisulfite-modified
403030-48-8D, bisulfite-modified	403030-49-9D, bisulfite-modified
403030-50-2D, bisulfite-modified	403030-51-3D, bisulfite-modified
403030-52-4D, bisulfite-modified	403030-53-5D, bisulfite-modified
403030-54-6D, bisulfite-modified	403030-55-7D, bisulfite-modified
403030-56-8D, bisulfite-modified	403030-57-9D, bisulfite-modified
403030-58-0D, bisulfite-modified	403030-59-1D, bisulfite-modified
403030-60-4D, bisulfite-modified	403030-61-5D, bisulfite-modified
403030-62-6D, bisulfite-modified	403030-63-7D, bisulfite-modified
403030-64-8D, bisulfite-modified	403030-65-9D, bisulfite-modified
403030-66-0D, bisulfite-modified	403030-67-1D, bisulfite-modified
403030-68-2D, bisulfite-modified	403030-69-3D, bisulfite-modified
403030-70-6D, bisulfite-modified	403030-71-7D, bisulfite-modified
403030-72-8D, bisulfite-modified	403030-73-9D, bisulfite-modified
403030-74-0D, bisulfite-modified	403030-75-1D, bisulfite-modified
403030-76-2D, bisulfite-modified	403030-77-3D, bisulfite-modified
403030-78-4D, bisulfite-modified	403030-79-5D, bisulfite-modified
403030-80-8D, bisulfite-modified	403030-81-9D, bisulfite-modified
403030-82-0D, bisulfite-modified	403030-83-1D, bisulfite-modified
403030-84-2D, bisulfite-modified	403030-85-3D, bisulfite-modified
403030-86-4D, bisulfite-modified	403030-87-5D, bisulfite-modified
403030-88-6D, bisulfite-modified	403030-89-7D, bisulfite-modified
403030-90-0D, bisulfite-modified	403030-91-1D, bisulfite-modified

RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT	403030-92-2D, bisulfite-modified	403030-93-3D, bisulfite-modified
	403030-94-4D, bisulfite-modified	403030-95-5D, bisulfite-modified
	403030-96-6D, bisulfite-modified	403030-97-7D, bisulfite-modified
	403030-98-8D, bisulfite-modified	403030-99-9D, bisulfite-modified
	403031-00-5D, bisulfite-modified	403031-01-6D, bisulfite-modified
	403031-02-7D, bisulfite-modified	403031-03-8D, bisulfite-modified
	403031-04-9D, bisulfite-modified	403031-05-0D, bisulfite-modified
	403031-06-1D, bisulfite-modified	403031-07-2D, bisulfite-modified

[illegible]

403032-34-8D, bisulfite-modified	403032-35-9D, bisulfite-modified
403032-36-0D, bisulfite-modified	403032-37-1D, bisulfite-modified
403032-38-2D, bisulfite-modified	403032-39-3D, bisulfite-modified
403032-40-6D, bisulfite-modified	403032-41-7D, bisulfite-modified
403032-42-8D, bisulfite-modified	403032-43-9D, bisulfite-modified
403032-44-0D, bisulfite-modified	403032-45-1D, bisulfite-modified
403032-46-2D, bisulfite-modified	403032-47-3D, bisulfite-modified
403032-48-4D, bisulfite-modified	403032-49-5D, bisulfite-modified
403032-50-8D, bisulfite-modified	403032-51-9D, bisulfite-modified
403032-52-0D, bisulfite-modified	403032-53-1D, bisulfite-modified
403032-54-2D, bisulfite-modified	403032-55-3D, bisulfite-modified
403032-56-4D, bisulfite-modified	403032-57-5D, bisulfite-modified
403032-58-6D, bisulfite-modified	403032-59-7D, bisulfite-modified
403032-60-0D, bisulfite-modified	403032-61-1D, bisulfite-modified
403032-62-2D, bisulfite-modified	403032-63-3D, bisulfite-modified
403032-64-4D, bisulfite-modified	403032-65-5D, bisulfite-modified
403032-66-6D, bisulfite-modified	403032-67-7D, bisulfite-modified
403032-68-8D, bisulfite-modified	403032-69-9D, bisulfite-modified
403032-70-2D, bisulfite-modified	403032-71-3D, bisulfite-modified
403032-72-4D, bisulfite-modified	403032-73-5D, bisulfite-modified
403032-74-6D, bisulfite-modified	403032-75-7D, bisulfite-modified
403032-76-8D, bisulfite-modified	403032-77-9D, bisulfite-modified
403032-78-0D, bisulfite-modified	403032-79-1D, bisulfite-modified
403032-80-4D, bisulfite-modified	403032-81-5D, bisulfite-modified
403032-82-6D, bisulfite-modified	403032-83-7D, bisulfite-modified
403032-84-8D, bisulfite-modified	403032-85-9D, bisulfite-modified
403032-86-0D, bisulfite-modified	403032-87-1D, bisulfite-modified
403032-88-2D, bisulfite-modified	403032-89-3D, bisulfite-modified
403032-90-6D, bisulfite-modified	403032-91-7D, bisulfite-modified
403032-92-8D, bisulfite-modified	403032-93-9D, bisulfite-modified
403032-94-0D, bisulfite-modified	403032-95-1D, bisulfite-modified
403032-96-2D, bisulfite-modified	403032-97-3D, bisulfite-modified
403032-98-4D, bisulfite-modified	403032-99-5D, bisulfite-modified
403033-00-1D, bisulfite-modified	403033-01-2D, bisulfite-modified
403033-02-3D, bisulfite-modified	403033-03-4D, bisulfite-modified
403033-04-5D, bisulfite-modified	403033-05-6D, bisulfite-modified
403033-06-7D, bisulfite-modified	403033-07-8D, bisulfite-modified
403033-08-9D, bisulfite-modified	403033-09-0D, bisulfite-modified
403033-10-3D, bisulfite-modified	403033-11-4D, bisulfite-modified
403033-12-5D, bisulfite-modified	403033-13-6D, bisulfite-modified
403033-14-7D, bisulfite-modified	403033-15-8D, bisulfite-modified
403033-16-9D, bisulfite-modified	403033-17-0D, bisulfite-modified
403033-18-1D, bisulfite-modified	403033-19-2D, bisulfite-modified
403033-20-5D, bisulfite-modified	403033-21-6D, bisulfite-modified
403033-22-7D, bisulfite-modified	403033-23-8D, bisulfite-modified
403033-24-9D, bisulfite-modified	403033-25-0D, bisulfite-modified

RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT 403033-26-1D, bisulfite-modified	403033-27-2D, bisulfite-modified
403033-28-3D, bisulfite-modified	403033-29-4D, bisulfite-modified
403033-30-7D, bisulfite-modified	403033-31-8D, bisulfite-modified
403033-32-9D, bisulfite-modified	403033-33-0D, bisulfite-modified
403033-34-1D, bisulfite-modified	403033-35-2D, bisulfite-modified
403033-36-3D, bisulfite-modified	403033-37-4D, bisulfite-modified
403033-38-5D, bisulfite-modified	403033-39-6D, bisulfite-modified
403033-40-9D, bisulfite-modified	403033-41-0D, bisulfite-modified
403033-42-1D, bisulfite-modified	403033-43-2D, bisulfite-modified
403033-44-3D, bisulfite-modified	403033-45-4D, bisulfite-modified
403033-46-5D, bisulfite-modified	403033-47-6D, bisulfite-modified

[illegible]

403034-74-2D, bisulfite-modified 403034-75-3D, bisulfite-modified
 403034-76-4D, bisulfite-modified 403034-77-5D, bisulfite-modified
 403034-78-6D, bisulfite-modified 403034-79-7D, bisulfite-modified
 403034-80-0D, bisulfite-modified 403034-81-1D, bisulfite-modified
 403034-82-2D, bisulfite-modified 403034-83-3D, bisulfite-modified
 403034-84-4D, bisulfite-modified 403034-85-5D, bisulfite-modified
 403034-86-6D, bisulfite-modified 403034-87-7D, bisulfite-modified
 403034-88-8D, bisulfite-modified 403034-89-9D, bisulfite-modified
 403034-90-2D, bisulfite-modified 403034-91-3D, bisulfite-modified
 403034-92-4D, bisulfite-modified 403034-93-5D, bisulfite-modified
 403034-94-6D, bisulfite-modified 403034-95-7D, bisulfite-modified
 403034-96-8D, bisulfite-modified 403034-97-9D, bisulfite-modified
 403034-98-0D, bisulfite-modified 403034-99-1D, bisulfite-modified
 403035-00-7D, bisulfite-modified 403035-01-8D, bisulfite-modified
 403035-02-9D, bisulfite-modified 403035-03-0D, bisulfite-modified
 403035-04-1D, bisulfite-modified 403035-05-2D, bisulfite-modified
 403035-06-3D, bisulfite-modified 403035-07-4D, bisulfite-modified
 403035-08-5D, bisulfite-modified 403035-09-6D, bisulfite-modified
 403035-10-9D, bisulfite-modified 403035-11-0D, bisulfite-modified
 403035-12-1D, bisulfite-modified 403035-13-2D, bisulfite-modified
 403035-14-3D, bisulfite-modified 403035-15-4D, bisulfite-modified
 403035-16-5D, bisulfite-modified 403035-17-6D, bisulfite-modified
 403035-18-7D, bisulfite-modified 403035-19-8D, bisulfite-modified
 403035-20-1D, bisulfite-modified 403035-21-2D, bisulfite-modified
 403035-22-3D, bisulfite-modified 403035-23-4D, bisulfite-modified
 403035-24-5D, bisulfite-modified 403035-25-6D, bisulfite-modified
 403035-26-7D, bisulfite-modified 403035-27-8D, bisulfite-modified
 403035-28-9D, bisulfite-modified 403035-29-0D, bisulfite-modified
 403035-30-3D, bisulfite-modified 403035-31-4D, bisulfite-modified
 403035-32-5D, bisulfite-modified 403035-33-6D, bisulfite-modified
 403035-34-7D, bisulfite-modified 403035-35-8D, bisulfite-modified
 403035-36-9D, bisulfite-modified 403035-37-0D, bisulfite-modified
 403035-38-1D, bisulfite-modified 403035-39-2D, bisulfite-modified
 403035-40-5D, bisulfite-modified 403035-41-6D, bisulfite-modified
 403035-42-7D, bisulfite-modified 403035-43-8D, bisulfite-modified
 403035-44-9D, bisulfite-modified 403035-45-0D, bisulfite-modified
 403035-46-1D, bisulfite-modified 403035-47-2D, bisulfite-modified
 403035-48-3D, bisulfite-modified 403035-49-4D, bisulfite-modified
 403035-50-7D, bisulfite-modified 403035-51-8D, bisulfite-modified
 403035-52-9D, bisulfite-modified 403035-53-0D, bisulfite-modified
 403035-54-1D, bisulfite-modified 403035-55-2D, bisulfite-modified
 403035-56-3D, bisulfite-modified 403035-57-4D, bisulfite-modified
 403035-58-5D, bisulfite-modified 403035-59-6D, bisulfite-modified
 RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic
 use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);
 USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined
 cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite
 modification)

IT 403035-60-9D, bisulfite-modified 403035-61-0D, bisulfite-modified
 403035-62-1D, bisulfite-modified 403035-63-2D, bisulfite-modified
 403035-64-3D, bisulfite-modified 403035-65-4D, bisulfite-modified
 403035-66-5D, bisulfite-modified 403035-67-6D, bisulfite-modified
 403035-68-7D, bisulfite-modified 403035-69-8D, bisulfite-modified
 403035-70-1D, bisulfite-modified 403035-71-2D, bisulfite-modified
 403035-72-3D, bisulfite-modified 403035-73-4D, bisulfite-modified
 403035-74-5D, bisulfite-modified 403035-75-6D, bisulfite-modified
 403035-76-7D, bisulfite-modified 403035-77-8D, bisulfite-modified
 403035-78-9D, bisulfite-modified 403035-79-0D, bisulfite-modified
 403035-80-3D, bisulfite-modified 403035-81-4D, bisulfite-modified
 403035-82-5D, bisulfite-modified 403035-83-6D, bisulfite-modified
 403035-84-7D, bisulfite-modified 403035-85-8D, bisulfite-modified
 403035-86-9D, bisulfite-modified 403035-87-0D, bisulfite-modified

[illegible]

403037-14-9D, bisulfite-modified	403037-15-0D, bisulfite-modified
403037-16-1D, bisulfite-modified	403037-17-2D, bisulfite-modified
403037-18-3D, bisulfite-modified	403037-19-4D, bisulfite-modified
403037-20-7D, bisulfite-modified	403037-21-8D, bisulfite-modified
403037-22-9D, bisulfite-modified	403037-23-0D, bisulfite-modified
403037-24-1D, bisulfite-modified	403037-25-2D, bisulfite-modified
403037-26-3D, bisulfite-modified	403037-27-4D, bisulfite-modified
403037-28-5D, bisulfite-modified	403037-29-6D, bisulfite-modified
403037-30-9D, bisulfite-modified	403037-31-0D, bisulfite-modified
403037-32-1D, bisulfite-modified	403037-33-2D, bisulfite-modified
403037-34-3D, bisulfite-modified	403037-35-4D, bisulfite-modified
403037-36-5D, bisulfite-modified	403037-37-6D, bisulfite-modified
403037-38-7D, bisulfite-modified	403037-39-8D, bisulfite-modified
403037-40-1D, bisulfite-modified	403037-41-2D, bisulfite-modified
403037-42-3D, bisulfite-modified	403037-43-4D, bisulfite-modified
403037-44-5D, bisulfite-modified	403037-45-6D, bisulfite-modified
403037-46-7D, bisulfite-modified	403037-47-8D, bisulfite-modified
403037-48-9D, bisulfite-modified	403037-49-0D, bisulfite-modified
403037-50-3D, bisulfite-modified	403037-51-4D, bisulfite-modified
403037-52-5D, bisulfite-modified	403037-53-6D, bisulfite-modified
403037-54-7D, bisulfite-modified	403037-55-8D, bisulfite-modified
403037-56-9D, bisulfite-modified	403037-57-0D, bisulfite-modified
403037-58-1D, bisulfite-modified	403037-59-2D, bisulfite-modified
403037-60-5D, bisulfite-modified	403037-61-6D, bisulfite-modified
403037-62-7D, bisulfite-modified	403037-63-8D, bisulfite-modified
403037-64-9D, bisulfite-modified	403037-65-0D, bisulfite-modified
403037-66-1D, bisulfite-modified	403037-67-2D, bisulfite-modified
403037-68-3D, bisulfite-modified	403037-69-4D, bisulfite-modified
403037-70-7D, bisulfite-modified	403037-71-8D, bisulfite-modified
403037-72-9D, bisulfite-modified	403037-73-0D, bisulfite-modified
403037-74-1D, bisulfite-modified	403037-75-2D, bisulfite-modified
403037-76-3D, bisulfite-modified	403037-77-4D, bisulfite-modified
403037-78-5D, bisulfite-modified	403037-79-6D, bisulfite-modified
403037-80-9D, bisulfite-modified	403037-81-0D, bisulfite-modified
403037-82-1D, bisulfite-modified	403037-83-2D, bisulfite-modified
403037-84-3D, bisulfite-modified	403037-85-4D, bisulfite-modified
403037-86-5D, bisulfite-modified	403037-87-6D, bisulfite-modified
403037-88-7D, bisulfite-modified	403037-89-8D, bisulfite-modified
403037-90-1D, bisulfite-modified	403037-91-2D, bisulfite-modified
403037-92-3D, bisulfite-modified	403037-93-4D, bisulfite-modified

RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT 403037-94-5D, bisulfite-modified	403037-95-6D, bisulfite-modified
403037-96-7D, bisulfite-modified	403037-97-8D, bisulfite-modified
403037-98-9D, bisulfite-modified	403037-99-0D, bisulfite-modified
403038-00-6D, bisulfite-modified	403038-01-7D, bisulfite-modified
403038-02-8D, bisulfite-modified	403038-03-9D, bisulfite-modified
403038-04-0D, bisulfite-modified	403038-05-1D, bisulfite-modified
403038-06-2D, bisulfite-modified	403038-07-3D, bisulfite-modified
403038-08-4D, bisulfite-modified	403038-09-5D, bisulfite-modified
403038-10-8D, bisulfite-modified	403038-11-9D, bisulfite-modified
403038-12-0D, bisulfite-modified	403038-13-1D, bisulfite-modified
403038-14-2D, bisulfite-modified	403038-15-3D, bisulfite-modified
403038-16-4D, bisulfite-modified	403038-17-5D, bisulfite-modified
403038-18-6D, bisulfite-modified	403038-19-7D, bisulfite-modified
403038-20-0D, bisulfite-modified	403038-21-1D, bisulfite-modified
403038-22-2D, bisulfite-modified	403038-23-3D, bisulfite-modified
403038-24-4D, bisulfite-modified	403038-25-5D, bisulfite-modified
403038-26-6D, bisulfite-modified	403038-27-7D, bisulfite-modified

[illegible]

403039-54-3D, bisulfite-modified	403039-55-4D, bisulfite-modified
403039-56-5D, bisulfite-modified	403039-57-6D, bisulfite-modified
403039-58-7D, bisulfite-modified	403039-59-8D, bisulfite-modified
403039-60-1D, bisulfite-modified	403039-61-2D, bisulfite-modified
403039-62-3D, bisulfite-modified	403039-63-4D, bisulfite-modified
403039-64-5D, bisulfite-modified	403039-65-6D, bisulfite-modified
403039-66-7D, bisulfite-modified	403039-67-8D, bisulfite-modified
403039-68-9D, bisulfite-modified	403039-69-0D, bisulfite-modified
403039-70-3D, bisulfite-modified	403039-71-4D, bisulfite-modified
403039-72-5D, bisulfite-modified	403039-73-6D, bisulfite-modified
403039-74-7D, bisulfite-modified	403039-75-8D, bisulfite-modified
403039-76-9D, bisulfite-modified	403039-77-0D, bisulfite-modified
403039-78-1D, bisulfite-modified	403039-79-2D, bisulfite-modified
403039-80-5D, bisulfite-modified	403039-81-6D, bisulfite-modified
403039-82-7D, bisulfite-modified	403039-83-8D, bisulfite-modified
403039-84-9D, bisulfite-modified	403039-85-0D, bisulfite-modified
403039-86-1D, bisulfite-modified	403039-87-2D, bisulfite-modified
403039-88-3D, bisulfite-modified	403039-89-4D, bisulfite-modified
403039-90-7D, bisulfite-modified	403039-91-8D, bisulfite-modified
403039-92-9D, bisulfite-modified	403039-93-0D, bisulfite-modified
403039-94-1D, bisulfite-modified	403039-95-2D, bisulfite-modified
403039-96-3D, bisulfite-modified	403039-97-4D, bisulfite-modified
403039-98-5D, bisulfite-modified	403039-99-6D, bisulfite-modified
403040-00-6D, bisulfite-modified	403040-01-7D, bisulfite-modified
403040-02-8D, bisulfite-modified	403040-03-9D, bisulfite-modified
403040-04-0D, bisulfite-modified	403040-05-1D, bisulfite-modified
403040-06-2D, bisulfite-modified	403040-07-3D, bisulfite-modified
403040-08-4D, bisulfite-modified	403040-09-5D, bisulfite-modified
403040-10-8D, bisulfite-modified	403040-11-9D, bisulfite-modified
403040-12-0D, bisulfite-modified	403040-13-1D, bisulfite-modified
403040-14-2D, bisulfite-modified	403040-15-3D, bisulfite-modified
403040-16-4D, bisulfite-modified	403040-17-5D, bisulfite-modified
403040-18-6D, bisulfite-modified	403040-19-7D, bisulfite-modified
403040-20-0D, bisulfite-modified	403040-21-1D, bisulfite-modified
403040-22-2D, bisulfite-modified	403040-23-3D, bisulfite-modified
403040-24-4D, bisulfite-modified	403040-25-5D, bisulfite-modified
403040-26-6D, bisulfite-modified	403040-27-7D, bisulfite-modified

RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT	403040-28-8D, bisulfite-modified	403040-29-9D, bisulfite-modified
	403040-30-2D, bisulfite-modified	403040-31-3D, bisulfite-modified
	403040-32-4D, bisulfite-modified	403040-33-5D, bisulfite-modified
	403040-34-6D, bisulfite-modified	403040-35-7D, bisulfite-modified
	403040-36-8D, bisulfite-modified	403040-37-9D, bisulfite-modified
	403040-38-0D, bisulfite-modified	403040-39-1D, bisulfite-modified
	403040-40-4D, bisulfite-modified	403040-41-5D, bisulfite-modified
	403040-42-6D, bisulfite-modified	403040-43-7D, bisulfite-modified
	403040-44-8D, bisulfite-modified	403040-45-9D, bisulfite-modified
	403040-46-0D, bisulfite-modified	403040-47-1D, bisulfite-modified
	403040-48-2D, bisulfite-modified	403040-49-3D, bisulfite-modified
	403040-50-6D, bisulfite-modified	403040-51-7D, bisulfite-modified
	403040-52-8D, bisulfite-modified	403040-53-9D, bisulfite-modified
	403040-54-0D, bisulfite-modified	403040-55-1D, bisulfite-modified
	403040-56-2D, bisulfite-modified	403040-57-3D, bisulfite-modified
	403040-58-4D, bisulfite-modified	403040-59-5D, bisulfite-modified
	403040-60-8D, bisulfite-modified	403040-61-9D, bisulfite-modified
	403040-62-0D, bisulfite-modified	403040-63-1D, bisulfite-modified
	403040-64-2D, bisulfite-modified	403040-65-3D, bisulfite-modified
	403040-66-4D, bisulfite-modified	403040-67-5D, bisulfite-modified

[illegible]

403041-94-1D, bisulfite-modified	403041-95-2D, bisulfite-modified
403041-96-3D, bisulfite-modified	403041-97-4D, bisulfite-modified
403041-98-5D, bisulfite-modified	403041-99-6D, bisulfite-modified
403042-00-2D, bisulfite-modified	403042-01-3D, bisulfite-modified
403042-02-4D, bisulfite-modified	403042-03-5D, bisulfite-modified
403042-04-6D, bisulfite-modified	403042-05-7D, bisulfite-modified
403042-06-8D, bisulfite-modified	403042-07-9D, bisulfite-modified
403042-08-0D, bisulfite-modified	403042-09-1D, bisulfite-modified
403042-10-4D, bisulfite-modified	403042-11-5D, bisulfite-modified
403042-12-6D, bisulfite-modified	403042-13-7D, bisulfite-modified
403042-14-8D, bisulfite-modified	403042-15-9D, bisulfite-modified
403042-16-0D, bisulfite-modified	403042-17-1D, bisulfite-modified
403042-18-2D, bisulfite-modified	403042-19-3D, bisulfite-modified
403042-20-6D, bisulfite-modified	403042-21-7D, bisulfite-modified
403042-22-8D, bisulfite-modified	403042-23-9D, bisulfite-modified
403042-24-0D, bisulfite-modified	403042-25-1D, bisulfite-modified
403042-26-2D, bisulfite-modified	403042-27-3D, bisulfite-modified
403042-28-4D, bisulfite-modified	403042-29-5D, bisulfite-modified
403042-30-8D, bisulfite-modified	403042-31-9D, bisulfite-modified
403042-32-0D, bisulfite-modified	403042-33-1D, bisulfite-modified
403042-34-2D, bisulfite-modified	403042-35-3D, bisulfite-modified
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403042-38-6D, bisulfite-modified	403042-39-7D, bisulfite-modified
403042-40-0D, bisulfite-modified	403042-41-1D, bisulfite-modified
403042-42-2D, bisulfite-modified	403042-43-3D, bisulfite-modified
403042-44-4D, bisulfite-modified	403042-45-5D, bisulfite-modified
403042-46-6D, bisulfite-modified	403042-47-7D, bisulfite-modified
403042-48-8D, bisulfite-modified	403042-49-9D, bisulfite-modified
403042-50-2D, bisulfite-modified	403042-51-3D, bisulfite-modified
403042-52-4D, bisulfite-modified	403042-53-5D, bisulfite-modified
403042-54-6D, bisulfite-modified	403042-55-7D, bisulfite-modified
403042-56-8D, bisulfite-modified	403042-57-9D, bisulfite-modified
403042-58-0D, bisulfite-modified	403042-59-1D, bisulfite-modified
403042-60-4D, bisulfite-modified	403042-61-5D, bisulfite-modified

RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

IT 403042-62-6D, bisulfite-modified	403042-63-7D, bisulfite-modified
403042-64-8D, bisulfite-modified	403042-65-9D, bisulfite-modified
403042-66-0D, bisulfite-modified	403042-67-1D, bisulfite-modified
403042-68-2D, bisulfite-modified	403042-69-3D, bisulfite-modified
403042-70-6D, bisulfite-modified	403042-71-7D, bisulfite-modified
403042-72-8D, bisulfite-modified	403042-73-9D, bisulfite-modified
403042-74-0D, bisulfite-modified	403042-75-1D, bisulfite-modified
403042-76-2D, bisulfite-modified	403042-77-3D, bisulfite-modified
403042-78-4D, bisulfite-modified	403042-79-5D, bisulfite-modified
403042-80-8D, bisulfite-modified	403042-81-9D, bisulfite-modified

RL: ANT (Analyte); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; detg. the degree of methylation of defined cytosines in genomic DNA in the sequence context 5'-CpG-3' by bisulfite modification)

L25 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:172133 HCAPLUS

DN 136:227883

TI Diagnosis and therapy of diseases by detection of single nucleotide polymorphism and cytosine methylation in chemically modified genomic DNA

IN Olek, Alexander; Piepenbrock, Christian; Berlin, Kurt

PA Epigenomics Ag, Germany
 SO PCT Int. Appl., 21 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 IC ICM C12Q001-68
 CC 3-1 (Biochemical Genetics)
 Section cross-reference(s): 9, 13, 14
 FAN.CNT 68

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002018631	A2	20020307	WO 2001-EP10073	20010901
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
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	EP 1274865	A2	20030115	EP 2001-953936	20010406 <--
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 WO 2002018631 A2 20020307 WO 2001-XF10073 20010901
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 WO 2002018631 A2 20020307 WO 2001-XG10073 20010901
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 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
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 WO 2002018631 A2 20020307 WO 2001-XI10073 20010901
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AU 2002012187 A5 20020313 AU 2002-12187 20010901
 PRAI DE 2000-10043826 A 20000901
 DE 2000-10019058 A 20000406 <--
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 WO 2001-EP3969 W 20010406
 WO 2001-EP10073 A 20010901

AB The invention relates to chem. modified genomic sequences of genes assocd.
 with diseases, oligonucleotides directed against said sequences and/or
 PNA oligomers for the detection of the methylation state of
 cytosine of genes assocd. with diseases. The present invention is based
 on the discovery that cytosine methylations patterns in genomic DNA are

particularly suitable for diagnosis and/or therapy of diseases. Thus, the chem. modified genomic sequences of genes assocd. with diseases, and oligonucleotides and/or **peptide nucleic acid** oligomers for detecting the cytosine methylation state of disease-related genes are provided. Specific reaction of bisulfite and subsequent alk. hydrolysis converts cytosine to uracil, which corresponds to thymidine in its base pairing behavior. However, 5-methylcytosine remains unmodified under these conditions. Consequently, the original DNA is converted in such a manner that methylcytosine, which originally could not be distinguished from cytosine by its hybridization behavior, can now be detected as the only remaining cytosine using "normal" mol. biol. techniques. The oligomer probes according to the present invention, contg. at least one CpG dinucleotide, constitute important and effective tools which make it possible to ascertain the genetic and epigenetic parameters of genes assocd. with diseases. The invention is exemplified by methylation anal. of human gene MLH1. [This abstr. record is one of ten records for this document necessitated by the large no. of index entries required to fully index the document and publication system constraints.].

- ST diagnosis genetic disease SNP polymorphism cytosine methylation; bisulfite DNA modification genetic disease diagnosis hybridization probe; polymorphism disease gene cytosine methylation diagnosis
- IT Nervous system
 (central, disease; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT Mental disorder
 (dementia; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT Animal cell line
 Blood analysis
 Bone, disease
 Brain
 Brain, disease
 Cerebrospinal fluid
 DNA microarray technology
 Disease, animal
 Eye
 Feces
 Fluorescent indicators
 Heart
 Human
 Intestine
 Isotope indicators
 Kidney
 Liver
 Lung
 Mammary gland
 Mass spectrometry
 Mental disorder
 Muscle, disease
 Neoplasm
 Nucleic acid hybridization
 PCR (polymerase chain reaction)
 Prostate gland
 Skin, disease
 Sputum
 Susceptibility (genetic)
 Therapy
 Urine analysis
 (diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single

- nucleotide polymorphisms)
- IT DNA
 - Gene, animal
 - RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 - (diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT **Peptide nucleic acids**
 - Primers (nucleic acid)
 - Probes (nucleic acid)
 - RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 - (diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT Glass, biological studies
 - RL: BUU (Biological use, unclassified); DEV (Device component use); BIOL (Biological study); USES (Uses)
 - (diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT Test kits
 - (diagnosis; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT Cardiovascular system
 - Digestive tract
 - Endocrine system
 - Respiratory tract
 - (disease; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT Behavior
 - Immunity
 - Metabolism, animal
 - Sexual behavior
 - (disorder; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT Diagnosis
 - (genetic; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT DNA
 - RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 - (methylation; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT DNA sequences
 - (of chem. modified genes; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT Immobilization, molecular
 - (of oligonucleotides to solid phase; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT Animal tissue
 - (paraffin-embedded; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT Laser ionization mass spectrometry

- (photodesorption, matrix-assisted; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT Laser desorption mass spectrometry
(photoionization, matrix-assisted; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT Mental disorder
(psychosis; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT Genetic polymorphism
(single nucleotide; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT 554-01-8, 5-Methylcytosine
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT 15181-46-1, Bisulfite 23134-05-6, Disulfite
RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT 7429-90-5, Aluminum, biological studies 7439-89-6, Iron, biological studies 7440-02-0, Nickel, biological studies 7440-21-3, Silicon, biological studies 7440-22-4, Silver, biological studies 7440-50-8, Copper, biological studies 7440-57-5, Gold, biological studies 9003-53-6, Polystyrene 12597-69-2, Steel, biological studies
RL: BUU (Biological use, unclassified); DEV (Device component use); BIOL (Biological study); USES (Uses)
(diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT 9012-90-2, DNA polymerase
RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(heat-resistant; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT 15178-66-2, d(CpG)
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(methylation; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT 71-30-7, Cytosine
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(methylation; diagnosis and therapy of diseases by using oligonucleotides and/or **PNA**-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)
- IT 402962-84-9D, bisulfite-modified 402962-85-0D, bisulfite-modified
402962-86-1D, bisulfite-modified 402962-87-2D, bisulfite-modified
402962-88-3D, bisulfite-modified 402962-89-4D, bisulfite-modified
402962-90-7D, bisulfite-modified 402962-91-8D, bisulfite-modified
402962-92-9D, bisulfite-modified 402962-93-0D, bisulfite-modified
402962-94-1D, bisulfite-modified 402962-95-2D, bisulfite-modified
402962-96-3D, bisulfite-modified 402962-97-4D, bisulfite-modified
402962-98-5D, bisulfite-modified 402962-99-6D, bisulfite-modified

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402964-26-5D, bisulfite-modified	402964-27-6D, bisulfite-modified
402964-28-7D, bisulfite-modified	402964-29-8D, bisulfite-modified
402964-30-1D, bisulfite-modified	402964-31-2D, bisulfite-modified
402964-32-3D, bisulfite-modified	402964-33-4D, bisulfite-modified
402964-34-5D, bisulfite-modified	402964-35-6D, bisulfite-modified
402964-36-7D, bisulfite-modified	402964-37-8D, bisulfite-modified
402964-38-9D, bisulfite-modified	402964-39-0D, bisulfite-modified
402964-40-3D, bisulfite-modified	402964-41-4D, bisulfite-modified
402964-42-5D, bisulfite-modified	402964-43-6D, bisulfite-modified
402964-44-7D, bisulfite-modified	402964-45-8D, bisulfite-modified
402964-46-9D, bisulfite-modified	402964-47-0D, bisulfite-modified
402964-48-1D, bisulfite-modified	402964-49-2D, bisulfite-modified
402964-50-5D, bisulfite-modified	402964-51-6D, bisulfite-modified
402964-52-7D, bisulfite-modified	402964-53-8D, bisulfite-modified
402964-54-9D, bisulfite-modified	402964-55-0D, bisulfite-modified
402964-56-1D, bisulfite-modified	402964-57-2D, bisulfite-modified
402964-58-3D, bisulfite-modified	402964-59-4D, bisulfite-modified
402964-60-7D, bisulfite-modified	402964-61-8D, bisulfite-modified
402964-62-9D, bisulfite-modified	402964-63-0D, bisulfite-modified
402964-64-1D, bisulfite-modified	402964-65-2D, bisulfite-modified
402964-66-3D, bisulfite-modified	402964-67-4D, bisulfite-modified
402964-68-5D, bisulfite-modified	402964-69-6D, bisulfite-modified
402964-70-9D, bisulfite-modified	402964-71-0D, bisulfite-modified
402964-72-1D, bisulfite-modified	402964-73-2D, bisulfite-modified
402964-74-3D, bisulfite-modified	402964-75-4D, bisulfite-modified
402964-76-5D, bisulfite-modified	402964-77-6D, bisulfite-modified
402964-78-7D, bisulfite-modified	402964-79-8D, bisulfite-modified
402964-80-1D, bisulfite-modified	402964-81-2D, bisulfite-modified
402964-82-3D, bisulfite-modified	402964-83-4D, bisulfite-modified
402964-84-5D, bisulfite-modified	402964-85-6D, bisulfite-modified
402964-86-7D, bisulfite-modified	402964-87-8D, bisulfite-modified
402964-88-9D, bisulfite-modified	402964-89-0D, bisulfite-modified
402964-90-3D, bisulfite-modified	402964-91-4D, bisulfite-modified
402964-92-5D, bisulfite-modified	402964-93-6D, bisulfite-modified
402964-94-7D, bisulfite-modified	402964-95-8D, bisulfite-modified
402964-96-9D, bisulfite-modified	402964-97-0D, bisulfite-modified
402964-98-1D, bisulfite-modified	402964-99-2D, bisulfite-modified
402965-00-8D, bisulfite-modified	402965-01-9D, bisulfite-modified
402965-02-0D, bisulfite-modified	402965-03-1D, bisulfite-modified
402965-04-2D, bisulfite-modified	402965-05-3D, bisulfite-modified
402965-06-4D, bisulfite-modified	402965-07-5D, bisulfite-modified
402965-08-6D, bisulfite-modified	402965-09-7D, bisulfite-modified
402965-10-0D, bisulfite-modified	402965-11-1D, bisulfite-modified
402965-12-2D, bisulfite-modified	402965-13-3D, bisulfite-modified
402965-14-4D, bisulfite-modified	402965-15-5D, bisulfite-modified
402965-16-6D, bisulfite-modified	

RL: ANT (Analyte); ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; diagnosis and therapy of diseases by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)

IT 402965-17-7D, bisulfite-modified	402965-18-8D, bisulfite-modified
402965-19-9D, bisulfite-modified	402965-20-2D, bisulfite-modified
402965-21-3D, bisulfite-modified	402965-22-4D, bisulfite-modified
402965-23-5D, bisulfite-modified	402965-24-6D, bisulfite-modified
402965-25-7D, bisulfite-modified	402965-26-8D, bisulfite-modified
402965-27-9D, bisulfite-modified	402965-28-0D, bisulfite-modified
402965-29-1D, bisulfite-modified	402965-30-4D, bisulfite-modified
402965-31-5D, bisulfite-modified	402965-32-6D, bisulfite-modified
402965-33-7D, bisulfite-modified	402965-34-8D, bisulfite-modified
402965-35-9D, bisulfite-modified	402965-36-0D, bisulfite-modified
402965-37-1D, bisulfite-modified	402965-38-2D, bisulfite-modified

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402966-65-8D, bisulfite-modified	402966-66-9D, bisulfite-modified
402966-67-0D, bisulfite-modified	402966-68-1D, bisulfite-modified
402966-69-2D, bisulfite-modified	402966-70-5D, bisulfite-modified
402966-71-6D, bisulfite-modified	402966-72-7D, bisulfite-modified
402966-73-8D, bisulfite-modified	402966-74-9D, bisulfite-modified
402966-75-0D, bisulfite-modified	402966-76-1D, bisulfite-modified
402966-77-2D, bisulfite-modified	402966-78-3D, bisulfite-modified
402966-79-4D, bisulfite-modified	402966-80-7D, bisulfite-modified
402966-81-8D, bisulfite-modified	402966-82-9D, bisulfite-modified
402966-83-0D, bisulfite-modified	402966-84-1D, bisulfite-modified
402966-85-2D, bisulfite-modified	402966-86-3D, bisulfite-modified
402966-87-4D, bisulfite-modified	402966-88-5D, bisulfite-modified
402966-89-6D, bisulfite-modified	402966-90-9D, bisulfite-modified
402966-91-0D, bisulfite-modified	402966-92-1D, bisulfite-modified
402966-93-2D, bisulfite-modified	402966-94-3D, bisulfite-modified
402966-95-4D, bisulfite-modified	402966-96-5D, bisulfite-modified
402966-97-6D, bisulfite-modified	402966-98-7D, bisulfite-modified
402966-99-8D, bisulfite-modified	402967-00-4D, bisulfite-modified
402967-01-5D, bisulfite-modified	402967-02-6D, bisulfite-modified
402967-03-7D, bisulfite-modified	402967-04-8D, bisulfite-modified
402967-05-9D, bisulfite-modified	402967-06-0D, bisulfite-modified
402967-07-1D, bisulfite-modified	402967-08-2D, bisulfite-modified
402967-09-3D, bisulfite-modified	402967-10-6D, bisulfite-modified
402967-11-7D, bisulfite-modified	402967-12-8D, bisulfite-modified
402967-13-9D, bisulfite-modified	402967-14-0D, bisulfite-modified
402967-15-1D, bisulfite-modified	402967-16-2D, bisulfite-modified
402967-17-3D, bisulfite-modified	402967-18-4D, bisulfite-modified
402967-19-5D, bisulfite-modified	402967-20-8D, bisulfite-modified
402967-21-9D, bisulfite-modified	402967-22-0D, bisulfite-modified
402967-23-1D, bisulfite-modified	402967-24-2D, bisulfite-modified
402967-25-3D, bisulfite-modified	402967-26-4D, bisulfite-modified
402967-27-5D, bisulfite-modified	402967-28-6D, bisulfite-modified
402967-29-7D, bisulfite-modified	402967-30-0D, bisulfite-modified
402967-31-1D, bisulfite-modified	402967-32-2D, bisulfite-modified
402967-33-3D, bisulfite-modified	402967-34-4D, bisulfite-modified
402967-35-5D, bisulfite-modified	402967-36-6D, bisulfite-modified
402967-37-7D, bisulfite-modified	402967-38-8D, bisulfite-modified
402967-39-9D, bisulfite-modified	402967-40-2D, bisulfite-modified
402967-41-3D, bisulfite-modified	402967-42-4D, bisulfite-modified
402967-43-5D, bisulfite-modified	402967-44-6D, bisulfite-modified
402967-45-7D, bisulfite-modified	402967-46-8D, bisulfite-modified
402967-47-9D, bisulfite-modified	402967-48-0D, bisulfite-modified
402967-49-1D, bisulfite-modified	

RL: ANT (Analyte); ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; diagnosis and therapy of diseases by using oligonucleotides and/or PNA-oligomers for detecting cytosine methylation or single nucleotide polymorphisms)

IT 402967-50-4D, bisulfite-modified	402967-51-5D, bisulfite-modified
402967-52-6D, bisulfite-modified	402967-53-7D, bisulfite-modified
402967-54-8D, bisulfite-modified	402967-55-9D, bisulfite-modified
402967-56-0D, bisulfite-modified	402967-57-1D, bisulfite-modified
402967-58-2D, bisulfite-modified	402967-59-3D, bisulfite-modified
402967-60-6D, bisulfite-modified	402967-61-7D, bisulfite-modified
402967-62-8D, bisulfite-modified	402967-63-9D, bisulfite-modified
402967-64-0D, bisulfite-modified	402967-65-1D, bisulfite-modified
402967-66-2D, bisulfite-modified	402967-67-3D, bisulfite-modified
402967-68-4D, bisulfite-modified	402967-69-5D, bisulfite-modified
402967-70-8D, bisulfite-modified	402967-71-9D, bisulfite-modified
402967-72-0D, bisulfite-modified	402967-73-1D, bisulfite-modified
402967-74-2D, bisulfite-modified	402967-75-3D, bisulfite-modified
402967-76-4D, bisulfite-modified	402967-77-5D, bisulfite-modified

402967-78-6D, bisulfite-modified	402967-79-7D, bisulfite-modified	
402967-80-0D, bisulfite-modified	402967-81-1D, bisulfite-modified	
402967-82-2D, bisulfite-modified	402967-83-3D, bisulfite-modified	
402967-84-4D, bisulfite-modified	402967-85-5D, bisulfite-modified	
402967-86-6D, bisulfite-modified	402967-87-7D, bisulfite-modified	
402967-88-8D, bisulfite-modified	402967-89-9D, bisulfite-modified	
402967-90-2D, bisulfite-modified	402967-91-3D, bisulfite-modified	
402967-92-4D, bisulfite-modified	402967-93-5D, bisulfite-modified	
402967-94-6D, bisulfite-modified	402967-95-7D, bisulfite-modified	
402967-96-8D, bisulfite-modified	402967-97-9D, bisulfite-modified	
402967-98-0D, bisulfite-modified	402967-99-1D, bisulfite-modified	
402968-00-7D, bisulfite-modified	402968-01-8D, bisulfite-modified	
402968-02-9D, bisulfite-modified	402968-03-0D, bisulfite-modified	
402968-04-1D, bisulfite-modified	402968-05-2D, bisulfite-modified	
402968-06-3D, bisulfite-modified	402968-07-4D, bisulfite-modified	
402968-08-5D, bisulfite-modified	402968-09-6D, bisulfite-modified	
402968-10-9D, bisulfite-modified	402968-11-0D, bisulfite-modified	
402968-12-1D, bisulfite-modified	402968-13-2D, bisulfite-modified	
402968-14-3D, bisulfite-modified	402968-15-4D, bisulfite-modified	
402968-16-5D, bisulfite-modified	402968-17-6D, bisulfite-modified	
402968-18-7D, bisulfite-modified	402968-19-8D, bisulfite-modified	
402968-20-1D, bisulfite-modified	402968-21-2D, bisulfite-modified	
402968-22-3D, bisulfite-modified	402968-23-4D, bisulfite-modified	
402968-24-5D, bisulfite-modified	402968-25-6D, bisulfite-modified	
402968-26-7D, bisulfite-modified	402968-27-8D, bisulfite-modified	
402968-28-9D, bisulfite-modified	402968-29-0D, bisulfite-modified	
402968-30-3D, bisulfite-modified	402968-31-4D, bisulfite-modified	
402968-32-5D, bisulfite-modified	402968-33-6D, bisulfite-modified	
402968-34-7D, bisulfite-modified	402968-35-8D, bisulfite-modified	
402968-36-9D, bisulfite-modified	402968-37-0D, bisulfite-modified	
402968-38-1D, bisulfite-modified	402968-39-2D, bisulfite-modified	
402968-40-5D, bisulfite-modified	402968-41-6D, bisulfite-modified	
bisulfite-modified	402968-42-7D, bisulfite-modified	402968-43-8D,
bisulfite-modified	402968-44-9D, bisulfite-modified	402968-45-0D,
bisulfite-modified	402968-46-1D, bisulfite-modified	402968-47-2D,
bisulfite-modified	402968-48-3D, bisulfite-modified	402968-49-4D,
bisulfite-modified	402968-50-7D, bisulfite-modified	402968-51-8D,
bisulfite-modified	402968-52-9D, bisulfite-modified	402968-53-0D,
bisulfite-modified	402968-54-1D, bisulfite-modified	402968-55-2D,
bisulfite-modified	402968-56-3D, bisulfite-modified	402968-57-4D,
bisulfite-modified	402968-58-5D, bisulfite-modified	402968-59-6D,
bisulfite-modified	402968-60-9D, bisulfite-modified	402968-61-0D,
bisulfite-modified	402968-62-1D, bisulfite-modified	402968-63-2D,
bisulfite-modified	402968-64-3D, bisulfite-modified	402968-65-4D,
bisulfite-modified	402968-66-5D, bisulfite-modified	402968-67-6D,
bisulfite-modified	402968-68-7D, bisulfite-modified	402968-69-8D,
bisulfite-modified	402968-70-1D, bisulfite-modified	402968-71-2D,
bisulfite-modified	402968-72-3D, bisulfite-modified	402968-73-4D,